

OPTICKS:

OR, A

TREATISE

OF THE

REFLEXIONS, REFRACTIONS,
INFLEXIONS and COLOURS

OF

LIGHT.

ALSO

TWO TREATISES

OF THE

SPECIES and MAGNITUDE

OF

Curvilinear Figures.

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Wings of Imagination

Catalogue 178

Muhammad Ali said, “The man who has no imagination has no wings.” The noted writer Zora Neale Hurston is described as one who rode on the “wings of imagination.” This is everything in both science and life. Here is a selection of books that celebrates man’s thought relating to the sciences. One of the most inspired was Newton. My copy of Newton’s *Opticks*, 1704, is traced to its original owner Dr. Charles Bernard, himself a member of the Royal Society, the book was sold at auction in 1711, reappeared in Edinburgh and bound for the university. The book was given as a student prize by Dr. Philip Kelland, also a Fellow of the Royal Society. Eventually the copy found its way to Washington [D.C.?] by 1915. Again it disappears until 1966 when it was owned by the bookseller Jake Zeitlin. There is nothing so inspiring to a collector than an important book, especially one with a history. Books bring one closer to inspiration, and that allows the mind to soar. 2014

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773. **BALL, Sir Robert S.** (1840-1913). *An Atlas of Astronomy; a series of seventy-two plates, with introduction and index.* New York: D. Appleton and Company, 1892. Square 8vo. xi, 57, [1], 17 pp. 72 plates (some color lithography and tissue guards), index; plates 20, 44, 50 reinforced hinges. Original full blind and silver-stamped cloth; extremities rubbed and abrasions to hinges, inner joints neatly reinforced with kozo, endleaves scarred due to tape pulled from surface. Very good. RARE.

§ 375

First American edition (issued in London). Perhaps Ball's most ambitious work: the 72 full-page plates are artfully presented and take advantage of the best of printing techniques of the time. This is the only edition, through the London edition is far more common.

"The high reputation of Sir Robert Ball as a writer on astronomy at once popular and scientific, is in itself a more than sufficient recommendation of his newly published, 'Atlas of Astronomy.' The plates are clear and well arranged, and those of them which represent the more striking aspects of the more important heavenly bodies are very beautifully executed. The introduction is written with Sir Robert Ball's well-known lucidity and simplicity of exposition, and altogether the Atlas is admirably adapted to meet the needs and smooth the difficulties of young and inexperienced students of astronomy, as well as materially to assist the researches of those that are more advanced." - *London Times* (review). See: *Book News*, volume 11, page 557.

The Geographical Journal, Volume 1, page 95: "This atlas contains seventy-two plates with an introduction, in which ample information is given with regard to the methods of using them. There are various novel features in the atlas which are worthy of special attention, the first of which is a series of sun-spot charts. These have been drawn on the principle employed by Mr. Arthur Thomson; and with their aid the heliographic latitude and longitude of a sun-spot may be determined within a single degree. Another feature is the 'Index to Planets,' which will be of great service to the beginner in the identification of those bodies. The series of moon-charts contain careful representations of the lunar formations, and give pictures of the moon for nearly every age [phases of the moon], as which it can be satisfactorily observed, up to the time of the full [moon]. Each of these pictures is furnished with a key and index of names. This atlas also contains drawings of Jupiter, Saturn, a map of the Pleiades, a chart of Mars, plates representing nebulae, comets, star charts, and indeed all the maps and diagrams in the author's usual clear style, and concludes with a well-chosen selection of telescopic objects."

"Robert Ball was a noted lecturer and popularizer of astronomy. He was the eldest son of Irish naturalist Dr. Robert Ball. His preliminary education was completed at Abbot's Grange, Chester, whereupon he entered Trinity College, Dublin, in 1857. As an undergraduate, Ball was a gold medalist in mathematics, in the experimental and natural sciences, and was awarded a University Scholarship in 1860. He graduated in 1865." Jordan D. Marché, II - See: Prof. Thomas Hockey, ed., *Biographical Encyclopedia of Astronomers*.

774. **BALL, Sir Robert S.** (1840-1913). *In the High Heavens.* London: Isbister and Company Limited, 1894. Sm. 8vo. x, (11)-383 pp. Color frontispiece of Mars, 41 figs., index. Modern red cloth, maroon gilt-stamped spine label. Bookplate. Fine.

§ 45

775. **BECVAR, Antonín [Antonín Bečvář]** (1901-1965). *Atlas of the Heavens; Atlas Coeli 1950.0*. Scientific editor: Prof. Dr. J.M. Mohr; Reviewer: Pavel Mayer. Praha & Cambridge: Czechoslovak Academy and Sky Publishing, 1962. 32 x 42 cm. Folio. With 16 folded sheets of colored star charts/maps. Navy blue silver-stamped boards with binder-form rings; spine ends show wear, rubbed. Bookplate. Very good.

\$ 50

Czech astronomer, is known for his work in the foundation of the Skalná Pleso Observatory and the discovery of the comet C/1947 F2 (Bečvář). Includes a paper by Zdeněk Kopal, "Concerning the atlas of the heavens." See: "Obituary: Antonín Bečvář," *Physics Today*, 18 (9): p.113, September 1965.

Scientific Atlas with 90 Colored Plates

776. **BERGHAUS, Heinrich** (1797-1884). *Physikalischer Atlas*. [Gotha, Germany: J. Perthes, 1845-48]. Oblong folio. 90 colored plates; some plates loose, smoky aroma. Contemporary half calf over marbled paper boards, in modern beige and black cloth box (binding is a remnant); spine torn and coming free, boards with open tears. Loose atlas maps are easy to view and handle regardless of the condition of the binding. SCARCE. Internally very good, in fine box. RARE.

[See illustration rear inside cover] \$ 1,000

FIRST EDITION variant of "the first major atlas of worldwide thematic maps," complete with 90 plates and no text (Camerini, p. 186). The atlas represents a fault line in the development of European science, being the first collection of original thematic maps of natural and physical phenomena. The maps were a valued source of information for leading scientists of the day, including Charles Darwin and Alfred Russel Wallace. The cartographic representations of natural phenomena provided scientists with novel visual arrangements as well as factual records of global distributions. There were numerous editions of this atlas, including an 1848 English translation, but the rarity of this original form is described by Camerini as follows:

"Of the several copies of the Berghaus atlas I have seen, no two are exactly the same. Because the map plates were issued as they were completed, some copies of the so-called first edition are a set of 90 maps [as is this copy], with no title-page or text apart from that on the map plates; some copies are bound in two volumes with the text bound separately; other copies are bound in three volumes, one of which contains 204 pages of text" (Camerini, p. 193).

This version is divided into 8 sections: Meteorologie (13 plates), Hydrographie (16 plates), Geologie (15 plates), Magnetismus (5 plates), Pflanzengeographie (6 plates), Geographie der Thiere (12 plates), Anthropographie (4 plates), and Ethnographie (19 plates).

The *Physikalischer Atlas* "was brought to fruition through the labour of a relatively small group of map-makers and publishers, who synthesized the research of countless others. It is not only a landmark of classical geography, but in bringing together an enormous wealth of knowledge, it was a capstone for shifting understandings of 'distribution' and of 'natural phenomena'" (Camerini, p. 208).

In 1827, Alexander von Humboldt asked Berghaus, one of Europe's leading cartographers, "to create a new kind of atlas, one that would represent not only the

physical landscape but also the distribution of plants, animals, and the races of man. Nothing came of this idea, but Humboldt approached him again in the 1840s. By that time, shading techniques allowed increasingly precise depictions of relief and the distribution of natural features. The advent of lithography also made cartographic revision and experimentation significantly easier. After a series of delays, Berghaus produced the *Physikalischer Atlas*.... It was a stunning achievement that captured physical geography through maps of rainfall, wind, temperature, geological features, animals, and plants, while human life was profiled through maps of race, ethnicity, occupation, and language” (Schulten, p. 85).

One of the most important maps contained within the atlas is the world map of human diseases, “a well-known landmark in the history of medical cartography, representing both a synthesis of the early period of medical mapping and a source from which popular and increasingly focused epidemiological maps developed. ... [The] map participated in a major shift in how major natural phenomena were studied” (Camerini, p. 186). It is one of four maps in the “Anthropographic” section, the others portraying population density, clothing distribution, and human life from four views (work, religion, morality, and government).

Prior to the publication of Berghaus’ map, most medical maps documented epidemic diseases. However, as scientific capabilities advanced, more complex maps became common. Although his medical map is often characterized as part of a nineteenth-century wave of “Humboldtian science,” or the measurement of widespread, interconnected phenomena to determine a definite cause, it was much more than that, representing “intellectual and graphic traditions from earlier periods, as well as significant innovations in graphic and analytic techniques. When we step back and look at the maps of Berghaus, Johnston, and Petermann in perspective, we see that they are part of a broad change in geographical awareness which participated in mid-nineteenth-century attitudes towards and practices of colonialism, nationalism, statistics, and science” (Camerini, p. 208).

☼ Camerini, Jane R., “Heinrich Berghaus’s Map of Human Diseases,” *Medical Hist. Supp.*, Vol. 20, 2000, 186-208 pp.; Schulten, Susan, *Mapping the Nation: History and Cartography in Nineteenth-Century America*, Chicago: University of Chicago Press, 2012.

777. **BOITARD, Pierre** (1787-1859) & **Jules Gabriel JANIN** (1804-1874). *Le Jardin des Plantes. Description et Mœurs des Mammifères de la Ménagerie et du Muséum d’Histoire Naturelle...précédée d’une Introduction historique, descriptive, et pittoresque par M.J. Janin*.... Paris: [G. Barba, 1851]. 4to. [2], lv-lvi, liv, lvii-lxvi, [2], 427 pp. 56 plates (1 folding, 4 color), numerous illustrations, index; pp. lv-lvi inexplicably bound out of sequence between two plates following the title-page, folding plate torn and missing lower left section, very occasional closed marginal tears. Contemporary half gilt-stamped green morocco over marbled boards, place-keeping ribbon; extremities worn, corners showing, front hinge mended with colored Kozo. Good.

§ 125

Publisher and date not present on title-page, but edition determined via collation match (though without the pp. lv-lvi peculiarity). Boitard was a French botanist and geologist who described and classified the Tasmanian Devil.

778. **BOUVIER, Hannah M.** (1811-1870) [married name: Peterson]. *Bouvier's Familiar Astronomy; or, an introduction to the study of the heavens. Illustrated by celestial maps... To which is added, a treatise on the globes, and a comprehensive astronomical dictionary. For the use of schools, families, and private students.* Philadelphia: Childs & Peterson, 1857. 8vo. 11, [1], 499, [1]. [12] pp. 2 double-page (folded) blue star-maps (Northern and Southern Hemispheres), 219 figures, index, ads. Original bluish-green blind and gilt-stamped cloth; some minor wear to corners. Title-page and top fore-edge ink ownership signature/mark of James H. Graff, Baltimore, MD.

\$ 45

“A work of great value ... No work which I have seen, of a partly familiar character, contains so much accurate information on astronomy.” – Sir G.B. Airy, “Recommendations” (beginning of book). Dedicated to the author’s father, John Bouvier (1787-1851), emigrated from France to America and practiced as a lawyer.

Complete Set

779. **Bridgewater Treatises.** *The Bridgewater Treatises: On the Power, Wisdom, and Goodness of God, as Manifested in the Creation. Treatise I: On the Power, Wisdom, and Goodness of God, as Manifested in the Adaptation of External Nature to the Moral and Intellectual Constitution of Man* by Thomas Chalmers. *Treatise II: On the Adaptation of External Nature to the Physical Condition of Man. Principally with Reference to the Supply of His Wants and the Exercise of His Intellectual Faculties* by John Kidd. *Treatise III: On Astronomy and General Physics Considered with Reference to Natural Theology* by William Whewell. *Treatise IV: The Hand: Its Mechanism and Vital Endowments as Evincing Design* by Charles Bell. *Treatise V: Animal and Vegetable Physiology Considered with Reference to Natural Theology* by Peter Mark Roget. *Treatise VI: Geology and Mineralogy Considered with Reference to Natural Theology* by William Buckland. *Treatise VII: On the Power, Wisdom, and Goodness of God, as Manifested in the Creation of Animals and in Their History, Habits, and Instincts* by William Kirby. *Treatise VIII: Chemistry, Meteorology, and the Function of Digestion Considered with Reference to Natural Theology* by William Prout. *The Ninth Bridgewater Treatise: A Fragment* by Charles Babbage. London: William Pickering, 1833-1839 [Treatises I-VIII], London: John Murray, 1838 [Treatise IX]. 9 treatises in 13 vols. 8vo. xi, [3], 284; vi, 304; xvi, 375, [1]; xv, [1], 381, [1]; xvi, 368; xxxvii, [1], 593, [1]; vii, [1], 661, [1]; xvi, 599, [1]; vii, [1], 128; cv, [3], 412; viii, 542; xxv, [1], 570, [2]; vii, [1], xxii, [23]-270 pp. All plates and engravings present; occasional light foxing to first and last few pages. Contemporary half black calf over marbled paper-backed boards, gilt-stamped spines and brown leather spine labels; extremities rubbed, some spine labels missing, corners showing. Armorial bookplates of Francis Frederick Fox; signature of John Osborne (vol. II). Very good.

\$ 1850

A mixed set of the nine Bridgewater Treatises uniformly and attractively bound.

The works here present are in various editions, and some in two volumes, as follows: I, Chalmers: Third edition. 2 vols.; II, Kidd: Second edition; III, Whewell: Seventh edition; IV, Bell: Fourth edition; V, Roget: Second edition. 2 vols.; VI, Buckland: 2 vols.; VII, Kirby: Second edition. 2 vols.; VIII, Prout: Second edition; IX, Babbage: Second edition.

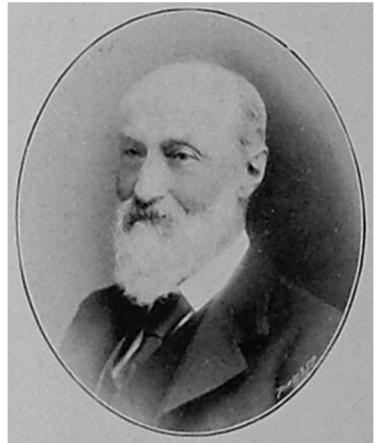
The Bridgewater Treatises “derive their origin and their title from the Rev. Francis

Henry Egerton, eighth and last Earl of Bridgewater,” who left in his will money and instructions for the assembly of a group of scholars to write a collection of treatises demonstrating and arguing for the “Power, Wisdom and Goodness of God, as Manifested in the Creation” (Gerard).

“The selection of writers was somewhat severely criticized at the time, and the treatises are undoubtedly of unequal merit, but several of them took a high rank in apologetic literature, the best known being probably those by Buckland, Bell, and Whewell” (Gerard).

The differences between the writers’ arguments foreshadow the direction of contemporary apologists, whose arguments generally hinge upon “the note of law and order stamped everywhere upon the universe, inorganic no less than organic” (Gerard). For example, Whewell eloquently examines and explores the laws of nature as a means by which a Creator may be discerned, but Prout opens his treatise with the rather perplexing argument that since animals in cold climates have fur, and since men dress in fur in cold weather, someone must have dressed the animals in fur before placing them in cold climates.

PROVENANCE: Francis Frederick Fox (1833-1915) was an oil and colour merchant from Brislington, UK. He was president of the Grateful Society In 1869, Master of the Society of Merchant Venturers in 1878-79 and Sheriff in 1880. He was Justice of the Peace for Gloucestershire, and an Alderman for the city from 1865 (“Francis Frederick Fox 1833-1915”). He authored: *Some account of the Ancient fraternity of merchant taylors of Bristol*, (1880); *The History of the Parishes of Old Sodbury and of Little Sodbury, and of the Town of Chipping Sodbury, in the County of Gloucester* (1907); *Roods and Roodlofts* (1900); *History of the Gloucestershire Society* (1899).



☼ “Francis Frederick Fox 1833-1915,” Dave Napier History of Bristol, available on-line; Gerard, John, “Bridgewater Treatises,” *The Catholic Encyclopedia*, Vol. 2, New York: Robert Appleton Company, 1907.

780. **BRUNO, Leonard C.** *The Tradition of Science, Landmarks of Western Science in the Collections of the Library of Congress*. Washington, D.C.: Library of Congress, 1987. 4to. xi, 351 pp. numerous illustrations. Cloth, dust-jacket. Very good. ISBN: 9780844405285 \$ 10
781. **CLERKE, Agnes Mary** (1842-1907). *Problems in Astrophysics*. London: Adam & Charles Black, 1903. First edition. 8vo. xvi, 567 pp. Frontispiece and 30 plates, 50 figures, index. Original dark green gilt-stamped cloth; endleaves both with offsetting and rubbing, small nick on spine, corners bumped. Very good.

\$ 50

In 1877 Agnes and Ellen Clerke settled in London. Superbly educated, they followed different career paths – Agnes in astronomy and her sister wrote poetry and fiction. This authoritative work was a pioneering document of astrophysics.

782. **CLERKE, Agnes Mary** (1842-1907), **A. FOWLER and J. Ellard GORE** (1845-1910 **John Ellard GORE**). *The Concise Knowledge; Astronomy*. London: Hutchinson & Co., 1896. Series: The Concise Knowledge Library, edited by Alfred H. Miles. Sm. 8vo. xvi, 581 pp. Frontispiece (Photo of the Moon taken by M.M. Loewy and Puiseux), 4 plates, 99 figures, index; prelims and rear endpapers showing offsetting. Original quarter red calf, maroon gilt-stamped cloth; leather is heavily damaged, fragmented, with ca.1970s plastic covering applied over original binding – if removed will further damage the leather (though the cloth will not be affected). Bookplate of George H. Billson (Times Book Club, London).
- \$ 75
- This is a deluxe form of issue (due to the binding). Clerke wrote the historical and solar system sections of the book. Fowler wrote the geometrical astronomy and astronomical instruments section, and Gore's contribution is "The Sidereal Heavens." See: Brück, M.T., Agnes Mary Clerke and the Rise of Astrophysics. Cambridge: Cambridge University Press, 2002; A.P. FitzGerald, John Ellard Gore (1845-1910), *The Irish Astronomical Journal*, Sept.-Dec., 1966. Vol. 7, no. 7-8.
783. **COPERNICUS, Nicolai**, *De Revolutionibus Orbium Coelestium, Libri VI* [in facsimile]. Norimberg, apud Ivh. Petreium, 1543. Brussels: Culture et Civilisation, 1966. 4to. [viii], 196 ff. Brown leatherette, maroon spine labels. Very good.
- \$ 100
- Facsimile issue of the first edition of Copernicus' greatest work, *De Revolutionibus*.
784. **[COPERNICUS] HOYLE, Fred** (1915-2001). *Nicolaus Copernicus, an Essay on His Life and Work*. New York: Harper & Row, 1973. First American edition. xi, 94 pp. 6 plates, 21 figures, index. Cloth, dust-jacket. Bookplate. Very good. \$ 15
785. **[DARWIN] Alfred Russel WALLACE** (1823-1913). *Darwinism: An Exposition of the Theory of Natural Selection with Some of Its Applications*. London: Macmillan, 1912. 8vo. xx, 494, [ads 2] pp. Portrait frontispiece of Wallace, 37 illustrations, index; first signature loose, pastedowns and free end-papers foxed. Original gilt-stamped green cloth; extremities rubbed, front hinge repaired (Kozo), top right front edge dented, floral paper residue affixed to pastedowns. Ownership signature of Edwin P. Shroeder, Lost Nation, Iowa. Title-page ownership signature of Jane Camerini, with the date of the first edition ("1889") inked next to the publishing date. Good.

\$ 50

Third edition of Wallace's "theory of everything." "In May of that year [1889] a British naturalist published a panoramic summary of evolutionary theory in which he outlined his heretical views on the evolution of the human mind and the spiritual purposefulness of all evolutionary progress: 'To us, the whole purpose, the only *raison d'être* of the world—all its complexities of physical structure, with its grand geological progress, the slow evolution of the vegetable and animal kingdoms, and the ultimate appearance of man—was the development of the human spirit in association with the human body.' The book was entitled *Darwinism, an Exposition*

of the Theory of Natural Selection with Some of Its Applications, but its author was not Charles Darwin, who was already seven years interred at Westminster Abbey. It was the definitive statement of Alfred Russel Wallace who, at seventy-six years of age, was bringing together in a consilience of inductions (as his colleague William Whewell called this process of convergence from many different sources) a lifetime of data and theory, observations and generalizations, from a surfeit of fields both scientific and social. It was a ‘theory of everything’—as a later generation of physicists would call their search for a grand unifying principle behind the cosmos—a synthesis of knowledge tied together with the physical, biological, and social sciences” (Shermer, pp. 33-34).

Provenance: Edwin Paul Shroeder (1899-1971, Bexar, Texas), Lost Nation, Iowa, was a student in 1922 at the University of Iowa. As an adult owned a real estate company in San Antonio, Texas, but died tragically in a trailer home fire.

☼ Shermer, Michael, *In Darwin’s Shadow*, Oxford: Oxford University Press, 2002.

786. **DARWIN, Sir George Howard** (1845-1912). *The Tides and kindred phenomena in the solar system; the substance of lectures delivered in 1897 at the Lowell Institute*, Boston, Massachusetts. Boston and New York: Houghton, Mifflin and Company, 1898. Sm. 8vo. xviii, 378 pp. 3 plates, 40 figs., index. Original navy blue gilt-stamped cloth, a.e.g.; front hinge cracked and mended with kozo. Ink inscription of early owner “Camp ... Pa, June 25, 1899, E.D. Smith, Stamford, Conn.”

\$ 25

Sir George Darwin was the second son and fifth child of Emma and Charles Darwin.

787. **DREYER, J. L. E. [John Louis Emil]** (1852-1926). *Tycho Brahe, a picture of scientific life and work in the sixteenth century*. Edinburgh: Adam and Charles Black, 1890. First edition. 8vo. xvi, 405, [2] pp. Frontispiece, 4 plates, index, [ads]. Original navy blue gilt-stamped cloth; somewhat rubbed, still a very good copy, color added to endleaves. “The best single treatment of Tycho’s life and work” - C. Doris Hellman, *DSB*, vol. II, p. 415. INSCRIBED BY THE AUTHOR TO THOMAS HEATH Esq. “WITH THE AUTHOR’S KIND REGARDS.” Bookplate of Herbert Kraus.

\$ 450

This copy is inscribed by Dreyer to Thomas Little Heath (1861-1940), the leading historian of science and mathematics, mathematician, classical scholar, historian of ancient Greek mathematics, and translator. His, *Manual of Greek Mathematics*, and his translations of Euclid, Apollonius, Aristarchus, and Archimedes, are each seminal works of classical scholarship.

Dreyer, Danish astronomer, compiled the New General Catalogue of Nebulae and Clusters of Stars, 1888, with supplements in 1895, 1908. In 1874 he was appointed astronomer at the Earl of Rosse’s observatory in Parsons town. In 1882 he was named astronomer to the observatory at Armagh, Northern Ireland. He was awarded the Gold Medal of the Royal Astronomical Society in 1916 and served as its president from 1923 to 1924.

788. **EDDINGTON, Sir Arthur Stanley** (1882-1944). *The Nature of the Physical World*. Gifford Lectures 1927. Cambridge: University Press, 1928. 8vo. xix, 361, [1] pp. 8 figs., index. Green gilt-stamped cloth; small white mark on upper cover. Bookplate. Very good. \$ 12

789. **EUCLID** (fl. 300 BCE); **John KEILL** (1671-1721) [or KEIL]; **Samuel CUNN**; **John HAM** [ed.]. *Euclid's Elements of Geometry, from the Latin Translation of Commandine. To which is added, a Treatise of the Nature of Arithmetic of Logarithms; Likewise Another of the Elements of Plain and Spherical Trigonometry; with a Preface, shewing the Usefulness and Excellency of this Work....* London: Printed for Thomas Woodward, 1733. 8vo. [xiv], 393, [ads 5] pp. [p. 194 misnumbered "149"]. 18 folding plates (final plate has mounted, movable diagrams as issued). Original gilt-stamped calf, 5 raised bands, one spine label (gilt obscured); extremities heavily worn, front cover joints reinforced with kozo, rear hinge cracked, spine label missing, extremities rubbed. Early bookplate of James Paine engraved by Charles Grignon the Elder after a painting by Samuel Wale. **SCARCE**. Very good.

\$ 175

Third edition (first published 1728) of Cunn's revision of Keill's translation of Euclid, with his own preface and illustrations, along with a second preface and additional treatises by Keill.

"Keill complains in his preface of the omissions by such editors as Tacquet and Dechales of many necessary propositions (e.g. VI. 27-29), and of their substitution of proofs of their own for Euclid's. He praises Barrow's version on the whole, though objecting to the 'algebraical' form of proof adopted in Book II., and to the excessive use of notes and symbols, which (he considers) make the proofs too short and thereby obscure; his edition was therefore intended to hit a proper mean between Barrow's excessive brevity and Clavius' prolixity.

"Keill's translation was revised by Samuel Cunn and several times reissued" (Euclid & Heiburg, pp. 110-111).

PROVENANCE: James Paine (1717-1789) was an English architect whose style was largely Palladian. "From the 1750s, he had his own practice, and designed many villas, usually consisting of a central building, often with a fine staircase, and two symmetrical wings. The most important house which he was involved with was Kedleston Hall, Derbyshire where he succeeded Matthew Brettingham from 1759 to 1760 and suggested the colonnaded hall, but he was himself displaced by Robert Adam, who altered his designs.

At around the same time he designed the very grand stables at Chatsworth House in the same county. He was a favorite architect of the powerful Catholic families of the time. In the 1760s he was commissioned to rebuild Worksop Manor for the Duke of Norfolk as well as the new Thomdon Hall (1764-70) in Essex for Lord Petre and his house on Park Lane, London. From 1770 to 1776, he built New Wardour Castle in Wiltshire (which featured as the Royal Ballet School in the film *Billy Elliot*). ...His practice declined in his later years as he refused to participate in the Neoclassical fashions established by the Adam brothers. He published much of his own work in his two volumes of *Plans, elevations and sections of Noblemen and Gentlemen's Houses* (1767 and 1783)" (Wikipedia).

☼ Euclid & Johann Ludvig Heiberg, *The Thirteen Books of Euclid's Elements*, Vol. 1, Cambridge, UK: Cambridge University Press, 1908.

790. **GEIKIE, James** (1839-1915). *Outlines of Geology: An Introduction to the Science for Junior Students and General Readers*. London: Edward Stanford, 1896. 8vo. xii, 424 pp. 400 illustrations, index. Gilt-stamped maroon calf presentation binding, front cover Reading School emblem, 5 raised bands, gilt-stamped black leather spine label; extremities lightly rubbed, corners showing. Reading School presentation bookplate with holograph ink inscription awarding the book to F.H. Stainton, Form IV, Modern, for first place in form from Headmaster William Charles Eppstein, 10/1/1903. Additional ownership signature of A.A. Quelch. Very good.

§ 40

Third edition, revised in beautiful presentation binding.

Geikie “wanted to describe how the ‘main foundations’ of geology were laid. He owed the outlines of his history to Lyell, though he added the history of topics that had occupied him during his distinguished career as a geologist, including the role of heat and volcanoes, the importance of fieldwork in working out the succession, and an emphasis on geomorphology. The heroes of the story were the Huttonians, who had stressed the role of heat and the importance of geomorphology” (Laudan, p. 225).

PROVENANCE: Although Stainton is unidentified, William Charles Eppstein was headmaster of Reading School from 1894-1914. One of the campus buildings, South House, still contains the Eppstein room, “which functions as a secondary mathematics office” (Wikipedia). He was elected a fellow of the Royal Astronomical Society in 1904 (The Observatory, p. 191).

☼ Laudan, Rachel, *From Mineralogy to Geology: The Foundations of a Science, 1650-1830*, Chicago: University of Chicago Press, 1994; *The Observatory*, Vol. XXVII, London: Taylor and Francis, 1904, p. 191.

791. **GRINNELL, Joseph** (1877-1939). *Joseph Grinnell's Philosophy of Nature: Selected Writings of a Western Naturalist*. Berkeley & Los Angeles: University of California Press, 1943. 8vo. xv, [1], 237, [1] pp. Portrait frontispiece, illustrations, folding color map. Original green cloth, gilt-stamped spine, dust-jacket; extremities lightly rubbed, jacket torn with spine ends missing pieces. Inscribed from Norman D. Levine, College of Veterinary Medicine, Univ. of Illinois to Helen, 3/24/43. Very good in good jacket.

§ 22

FIRST EDITION of Grinnell's posthumously collected essays on natural history.

PROVENANCE: Norman D. Levine (d. 1999) “was professor of parasitology at the University of Illinois from 1946 -1983. He was a key figure in parasitology research, and in 1986 he was named Distinguished Veterinary Parasitologist by the American Association of Veterinary Parasitologists.

☼ University of Illinois at Urbana-Champaign, College of Veterinary Medicine, “Annual Midwestern Conference of Parasitologists,” available on-line.

792. **HALE, George Ellery** (1868-1938). *The Study of Stellar Evolution, An Account of Some Recent Methods of Astrophysical Research*. Chicago: The University of Chicago Press, 1908. First edition. xi, 252 pp. Frontispiece, 104 plates (including Frontispiece), index. Bound by Stikeman & Co. in half dark green crushed morocco, green cloth, gilt-ruled and decorative spine, t.e.g., marbled endleaves; inner hinge broken, extremities worn (with kozo repairs). Bookplate of Katherine Duer Mackay (1880-1930) (designed by the American artist and illustrator Frances W. Delehanty (1879-1977) – she also made a bookplate for Clarence Hungerford Mackay (1874-1938)). Very good.

\$ 150

This is a deluxe form for this volume. Clarence Mackay had inherited something like \$500 million in 1902. “Katherine was a suffragette and a champion of women’s rights and became the first woman member of the Roslyn school board in 1905.” She, however, became the lover of Dr. Joseph Blake (1910), resulting in divorce (1914). This book could have silently witnessed the lover’s comings and goings.

793. **[HEVELIUS] Ivan VOLKOFF, Ernest FRANZGROTE & A. Dean LARSEN**. *Johannes Hevelius and his Catalog of Stars. The millionth-volume acquisition by the J. Reuben Clark, Jr. Library*. Provo, Utah: Brigham Young University Press, 1971. Sm. 4to. 89 pp. Illustrations. \$ 10

794. **HOWE, Herbert A.** *A Study of the Sky*. Meadville, Pa.: The Chautauqua-Century Press, 1896. Series: Chautaugua Reading Circle Literature. First edition. 12mo. xii, (15)-340 pp. Frontispiece, 144 illustrations, index. Original brown black and gilt-stamped cloth; rubbed. Ownership signature of John C. Thomas (Montgomery Street). Very good.

\$ 20

Howe was with the University of Denver for 46 years and earned an international reputation for his work in astronomy and mathematics. He borrowed money for and helped install the telescope then and the 1894 opening of the Chamberlin Observatory.

795. **[HUGGINS] MAUNDER, Edward Walter** (1851-1928). *Sir William Huggins and Spectroscopic Astronomy*. London and Edinburgh, New York: T.C. & E.C. Jack, Dodge Publishing Co., 1913. 12mo. 94, [ads 2] pp. Frontispiece. Olive green stamped cloth. Very good.

\$ 20

Sir William Huggins (1824-1910) was an English astronomer best known for his work on astronomical spectroscopy.

The “first physical atlas ever published in England...”

796. **JOHNSTON, Alexander Keith** (1804-1871). *The Physical Atlas of Natural Phenomena*. Edinburgh & London: William Blackwood, 1850. Folio (11 ½ x 14 ¾ inches). 122 pp. Hand-colored frontispiece (double-folding map of the Paleontology of G.B.), 24 hand-colored plates; first few pages foxed (including frontispiece). Original half gilt-stamped brown morocco over gilt-stamped light brown cloth, all edges gilt; extremities rubbed, mild smoky aroma. RARE. Very good.

\$ 650

Second edition, Imperial folio issue (see below), of Johnston's important and beautifully illustrated world atlas, first published 1848, which was the "first physical atlas ever published in England..." [DNB, X, p. 942]. The first edition was dedicated to Alexander von Humboldt who had suggested this work be produced. Humboldt believed in the unity of nature and the need of interdisciplinary study of all the sciences in the application of geographical data. The atlas is one of the first to create a geographical map of fossils and paleontological evidence as found in Great Britain. It also includes a detailed map of volcanic activity around the world. The maps in this volume are of the Atlantic Ocean, Indian Ocean, Pacific Ocean, a Tidal Chart of the British Seas, the River Systems of Europe and Asia, and the River Systems of America. Others maps are devoted to hydrography (currents, temperature, ocean depth, level of sea, navigation, river systems), meteorology, botanical distribution, zoological distribution (including rats and birds and reptiles), ethnography, ornithology. There are a number of references to the work of Charles Darwin: of his discovery of the wild potato, a new opossum, llama, habitat of the hummingbird, and the southern limit of reptiles. Professor Richard Owen is mentioned with regard to mammals. Alfred Russel Wallace is not mentioned.

"The success of Johnston's *Physical Atlas of Natural Phenomena*, 1848, did much to establish the term physical geography at this time" (Freeman, p. 44).

"Among the best Atlases, illustrating physical features, are Lange's *Schul Atlas*, and Keith Johnston's *Physical Atlas*." (Faunthorpe, p. 3).

Johnston "published *The Physical Atlas* (Edinburgh, 1848), in large part the English version of Heinrich Berghaus's *Physikalischer Atlas* (Gotha, 1845-48). The phytology and zoology section included an ethnographic map of Europe by Gustaf Kombst, a German geographer working in Edinburgh, and another of North America. These maps reflected both increased interest in the mapping of zoological and biological distributions, and a concern with ethnicity that demonstrated the impact of nationalism and a growing intellectual interest in ethnicity in the nineteenth century that built upon such eighteenth-century figures as determinants in history and Kloots, with his concept of 'natural frontiers'" (Black, pp. 78-79).

"The Physical Atlas of Berghaus, a valuable German work, preceded the publication in [Scotland] of the more extensive and elaborate 'Physical Atlas of Natural Phenomena' by Mr. A. Keith Johnston, of which it would be difficult to speak in terms above the mark of its actual merits, embracing every part of the subject it delineates to the eye as well as to the mind, and far better than by any verbal description, those complex relations of physical phenomena on the globe, which are the true foundation of Physical Geography" (Maury, pp. 361-362).

There are at least two issues of this atlas: A tall folio measuring 15 x 22 ½ inches and with a 21-line title page, has priority over this issue. The present "Imperial" folio issue measures 11 ½ x 14 ¾ inches and the title is with 13-lines of text (more simple typographically). This is, determined by the title-page, a reduced format of the Imperial folio, this meant for use of students, colleges, academies and families.

✧ Black, Jeremy, *Maps and History: Constructing Images of the Past*, New Haven, CT: Yale University Press, 2000; Faunthorpe, John Pincher, *An Elementary Physical Atlas*, London: Edward Stanford, 1884; Freeman, T.W., *A Hundred*

Years of Geography, Livingston, NJ: Transaction, 1961; Maury, Matthew Fontaine, "The Physical Geography of the Sea" [Review], *Edinburgh Review*, Vol. CV, Edinburgh: Longman, Brown, Green, Longmans, & Roberts, and Adam and Charles Black, 1857, 360-390 pp.

See also: Elizabeth Baigent, Robert Mayhew, *English Geographies 1600-1950: Historical Essays on English Customs, Cultures, and Communities in Honour of Jack Langton*, St John's College Research Centre, 2009.

797. **LOWELL, Percival** (1855-1916). *Mars*. Boston & New York: Houghton, Mifflin and Company, 1895. 8vo. viii, 228 pp. Color frontispiece of Mars, 23 plates, 3 illustrations, index. Original gilt-stamped (featuring the planet Mars) red cloth, t.e.g.; spine a bit sun faded, back cover with abrasion exposing boards. Very good.

§ 800

First Edition. This is the first work of Lowell to offer his views of the Martian canals and he postulation of intelligent life on Mars.

MacPherson wrote, "In 1895 Lowell published his first book on Mars, in which he summarized the results of his observations and those of his assistant, A.E. Douglas, and his friend, W.H. Pickering. For the first time in the history of Martian discovery the polar cap was observed to disappear. In addition Lowell discovered a large number of new canals and lakes, which he renamed as 'oases'; while Douglass detected the presence of canals in the dark regions of the planet - the so-called 'seas' - thus finally refuting the theory of their aqueous nature." - *Makers of Astronomy*, 1933, pp. 198-99.

"In reading Mars today, one must keep in mind the times at which Lowell wrote. His presentation was aimed primarily at a popular audience and was persuasive both in its organization and its literary style. Much of what he had to say was not then, nor even now, in serious dispute, and few writers have ever said it so colorfully or with such confidence and gusto. As an added fillip, he spiced his text with pungent, irreverent comments on mankind and the world in general that can still evoke a smile or a chuckle." - 58, *Sky and Telescope*, 359-61, October 1979.

Rabkin refers to Lowell's conviction of the inhabited Mars, or at least his desired for the theory of life on Mars. Lowell romanticized the science of Martian theories "pioneering certainty about a supposedly established civilization [on the red planet]." "In the Conclusion to Mars, Lowell recapitulates the line of argument he held in 1895 and would hold for the rest of his life, positions based equally on science and yearning - on Lowell's own astronomy, on Lowell's wish-fulfilling interpretations of cosmic and biological evolution, and even on Lowell's own ideas of what constitutes a better person and a better society, the dreams of a pioneer of privilege seeking to reunite with a glory gone, or not yet achieved, on Earth, but available in heaven." In his own time the public was quite absorbed with his views though now one can easily perceive the flaws in his arguments. See: Eric S. Rabkin, *Mars: A Tour of the Human Imagination*, 2005, page 96.

Michael Crowe, a historian of science and writer about the theories of extraterrestrial life, details some of Lowell's association with both the Orient and astronomy. Crowe describes Lowell as a follower of evolutionary cosmic philosophy, though he is unable to resolve why Lowell made a career change that

was launched with this book. Amidst the storm of “millionaire telescopes” “battles” Pickering, Proctor, Lowell and others were in a race to advance astronomical thinking. Lowell was well funded but his postulations and suppositions were quickly questioned by Holden at the Lick Observatory. Lowell’s logic suggested that a thinner atmosphere would support intelligent beings without lungs, drawing the example of fish with gills for breathing. See Mars, pp. 74-75. Michael J. Crowe, *The Extraterrestrial Life Debate, 1750-1900*, 2012.

798. **LOWELL, Percival** (1855-1916). *Mars and its Canals*. New York & London: The Macmillan Company, 1906. 8vo. xv, 393, [2] pp. Frontispiece, 9 plates (some color), 12 maps, 49 figures, index. Original dark green gilt-stamped cloth, t.e.g.; lightly rubbed. Ownership signatures of Edwin M. Eckard and Russell Sullivan, Indianapolis, [Indiana]. Bookplate of Los Angeles lawyer Herbert Kraus. Very good.

\$ 750

First edition. Lowell popularized theories of life on Mars as well as promoting the mysteries of the Martian canal system. “His thesis that the planet Mars was the abode of intelligent life continued to excite the public mind decades after his death; although the idea never gained the acceptance of his colleagues, it was not until after the Mariner flights to Mars during the late 1960’s that it could firmly and finally be banished from all consideration. ... Lowell was not the first to regard the Martian bright areas as deserts and the dark areas as vegetation, but he studied in unprecedented detail the progressive ‘wave of darkening’ of the dark areas, from pole to equator, as the seasons advanced from late winter, through spring, and into summer. As water was released from the melting polar caps, plant life would be revived; the accompanying increased prominence of the canals would indicate that water was flowing through them. The premise that the dark areas are vegetation was almost universally accepted until the late 1950’s. Then astronomers began to suspect that the light and dark areas are equally barren, and that the changes in the latter are simply due to light-colored dust being blown across them by winds. Lowell had himself suggested that the polar caps were due to hoarfrost, although astronomers now believe them to arise more from solid carbon dioxide than from solidified water. Observations from the Mariner flights have confirmed the barren nature of the Martian surface. The canals exist, although not as the fantastic system of hundreds of straight lines depicted by Lowell; most, if not all, of them are in fact merely chance alignments of dark patches.” – *DSB*.

Provenance: Russell Sullivan (b.1881), graduated from Yale University in 1905. He was the son of a steel manufacturer in Indianapolis, George R. Sullivan. He passed in 1920 and the firm was run by Russell and his brother William George Sullivan (1884-1959). See: Yale Class of 1905, History, pp. 263-4.

Barchas Collection 1318; *DSB*, VIII, pp. 520-23; Sheehan, *The planet Mars*, pp. 102-110.

799. **MAUNDER, Edward Walter** (1851-1928). *The Science of the Stars*. London and Edinburgh: T.C. & E.C. Jack, 1912. 17 cm. 95, [1], [ads 2] pp. Olive green stamped cloth. Pencil ownership signature. Very good.

\$ 15

Maunder took some courses at King’s College, London, but did not obtain a degree. After working briefly at a bank he became photographic and spectroscopic

assistant at the Royal Observatory, Greenwich, in 1873. Maunder's appointment allowed Greenwich to branch out from purely positional work, for Maunder began a careful study of the Sun, mailing of sunspots and related phenomena. After 1891 he was assisted by Annie Russell, a Cambridge-trained mathematician, who must have been one of the first women to be so employed in England. She became his wife in 1895. - *Biographical Encyclopedia of Scientists*, Facts-on-file, 1981. See: William Sheehan, *Planets and Perception*, Tucson, University of Arizona Press, 1988, p. 197.

800. **MAUNDER, Annie S.D.; Edward Walter MAUNDER** (1851-1928). *The Heavens and Their Story*. London: Charles H. Kelly, 1910. (1st ed. was issued in 1908, reprinted). 8vo. 357 pp. 72 plates (8 in color, including frontispiece), index; occasional spotting. Original red gilt-stamped calf, gilt spine, a.e.g. School Prize for Art to Dorothy Eyre, awarded by Walter Harris, Ph.D., Head Master, Dec., 1919, Longton High School; upper joint splitting a bit, calf rubbed. Very good.

\$ 55

Edward Walter Maunder worked at a bank briefly before he was appointed photographic and spectroscopic assistant at the Royal Observatory at Greenwich in 1873. His studies of the Sun are represented in the present work which was written jointly with his (former) assistant and wife. Annie Maunder (1868-1947) became one of the first women accepted by the Royal Astronomical Society.

801. **MITCHEL, Ormsby McKnight**. *Popular Astronomy, a Concise Elementary Treatise on the Sun, Planets, Satellites and Comets*. New York: Phinney, Blakeman & Mason, 1860. First edition. 12mo. xiii, [1], (14)-376 pp. Frontispiece of the Dudley Observatory at Albany, NY, 8 plates, diagrams. Original blind and gilt-stamped brown publisher's cloth; extremities worn (corners showing), some fading, waterstained throughout. Early ownership signature of I. Spottiswood on title. Good.

\$ 50

The plates include images of the Moon, Mars, Jupiter, Saturn, and the 1858 Donati's comet (one of the brightest comets of the nineteenth century), due not to appear again till the fourth millennium. Mitchel was director of the Cincinnati Observatory for fourteen years. He later became director of the Dudley Observatory, thus the frontispiece image for this volume. See: Kevin J. Weddle, "Old Stars: Ormsby Mitchel," *Sky & Telescope*, vol. 71, no. 14-16, Jan. 1986. Hockey, pp. 789-791.

802. **MITCHEL, Ormsby McKnight** (1810?-1862). *The Planetary and Stellar Worlds. A Popular Exposition of the Great Discoveries and Theories of Modern Astronomy. In a series of ten lectures*. New York: Phinney, Blakeman & Mason, 1860. 12mo. (in 6s). xvi, (17)-336 pp. 17 plates (3 folding). Original brown and blind-stamped cloth; text-black dented on lower corner, extremities worn (corners showing). Ownership signature of R.S. Marshall. Good.

\$ 30

First issued in 1848 by William L. Allison, this is the 1860 issue. Called the father of American astronomy, Mitchel published, for a bit more than two years, the first American astronomical journal, *The Sidereal Messenger*. He was also a successful Union general in the Civil War. He was also the driving force behind building and establishing the great Cincinnati Observatory. He died of yellow fever in Beaufort,

South Carolina. See: Weddle, "Old Stars: Ormsby Mitchel," 71 *Sky & Telescope*, 14, Jan. 1986.

803. **MONCK, William** Henry Stanley (1839-1915). *An Introduction to Stellar Astronomy*. London: Hutchinson & Co., 1899. Sm. 8vo. 203 pp. Frontispiece, 4 photographic plates, index. Original full blue cloth, gilt-stamped spine; spine soiled or faded (lettering obscured), front hinge repaired (kozo). Good. \$ 50
- "Although trained as a lawyer and philosopher, William H.S. Monck was a highly proficient amateur astronomer who was among the first to realize the existence of dwarf and giant stars. With the assistance of Stephen M. Dixon, Monck made the first astronomical photoelectric measurements of light in Dublin in August 1892. Monck was the third of four sons of the Reverend Thomas Stanley Monck (1796-1858) and his wife Lydia (née Kennedy). His childhood was spent in a rural community 16 miles southeast of Parsonstown (now Birt), King's County, where William Parsons, the Third Earl of Rosse, completed the great 72-in. reflecting telescope in 1845. The sight of the Leviathan of Parsonstown may well have kindled Monck's interest in astronomy."
804. **[MORE, Henry] HALL, A. Rupert**. *Henry More, Magic, Religion and Experiment*. (London): Basil Blackwell, (1990). Series: *Blackwell Science Biographies*. 8vo. xii, 304 pp. Index. Cloth, dust-jacket. Ownership ink signatures, including one of David C. Lindberg. ISBN: 0631172955 / 0-631-17295-5 \$ 16
805. **MORITZ, Robert Edouard** (1868-1940). *On Mathematics and Mathematicians* (Formerly titled: *Memorabilia Mathematica or the Philomath's Quotation-Book*). New York: Dover, (1958). 8vo. vii, 410 pp. Index. Pictorial printed wrappers; rubbed. Generally very good. [BH] \$ 5
806. **[MORLAND, Samuel (1625-1695)] Henry Winram DICKINSON** (1870-1952). *Sir Samuel Morland: Diplomat and Inventor, 1625-1695*. Cambridge: Published for the Newcomen Society by W. Heffer, 1970. FIRST EDITION. Series: The Newcomen Society for the Study of the History of Engineering and Technology. Extra Publication No.6. 8vo. xvi, 133 pp. Frontis. port. of Morland, 12 plates (in rear), index. Quarter light green cloth with green cloth sides, gilt-stamped spine title, dust-jacket; jacket lightly soiled. Fine. ISBN: 085270061X Z1489 \$ 12
807. **MOSCOVICH, Ivan**. *Leonardo's Mirror & Other Puzzles. Ivan Moscovich's Mastermind Collection*. New York: Sterling, (2004). 4to. 128 pp. Illus., diags. Printed wrappers. Fine. [BH] \$ 5
808. **MOULTON, Forest Ray**. *An Introduction to Celestial Mechanics. Second revised edition*. New York; Macmillan, 1935. 8vo. xvi, 437 pp. Figs., index. Maroon blind and gilt-stamped cloth; minor wear to spine ends. Ink ownership signature of Harold Levine. Very good. [HL] \$ 60
809. **MÜLLER, Wilhelm**. *Mathematische Strömungslehre*. Berlin: Julius Springer, 1928. 8vo. IX, 239 pp. 137 figs. Pencil marginalia p. 3; ink marginalia p. 30, 52 (by MILNE-THOMSON). Original black gilt-stamped cloth; some minor wear to extremities. Very good. L.M. MILNE-THOMSON'S copy with his annotations (pencil or ink), most on blank page facing foreword. Louis Melville Milne-Thomson (1891-1974) was a well-known English mathematician ... [HL] \$ 95

810. **MULTHAUF, Robert P.** (1919-2004), et al. *Holcomb, Fitz, and Peate: Three 19th-Century American Telescope Makers. Contributions from the Museum of History and Technology, Paper 26*, pp. 155-184. Washington, D.C.: Smithsonian Institution, 1962. Series: United States National Museum, Bulletin 228. 4to. 30 pp. 15 numbered figs. Printed wrappers. Very good. Z1493 \$ 15
811. **Munn & Co.** *Scientific American Catalogue*. 1879. New York: Munn, 1879. 8vo. [12] pp. Printed wrappers; spine starting. Very good. Z1495 \$ 30
812. **Munn & Co.** *Catalogue of Scientific and Technical Books*. New York: Munn, 1902. 8vo. 109, ads. [7] pp. Index. Printed wrappers; spine a bit worn. Pencil notation on front cover. Very good. Rare. Z1494 \$ 15
813. **MURDOCH, John E.** *Album of Science; Antiquity and the Middle Ages*. New York: Charles Scribner's Sons, (1984). Sm. 4to. xii, 403 pp. Frontispiece, 291 numbered illus., index. Cloth, dust-jacket; jacket extremities worn, torn. Very good. \$ 40
814. **MURDOCH, John Emery; Edith Dudley SYLLA** (eds.). *The cultural context of medieval learning: proceedings of the first International Colloquium on Philosophy, Science, and Theology in the Middle Ages - September 1973*. Dordrecht, Holland & Boston: D. Reidel, (1975). Series: Boston Studies in the Philosophy of Science. Ed. by Robert S. Cohen and Marx W. Wartofsky, XXVI. 8vo. viii, 566 pp. Navy blue cloth, dust-jacket; jacket worn. Ex-departmental copy with rubber stamps on all three fore-edges. Good. \$ 35
- Contents: Roshdi RASHED, Reconnancements de l'algèbre aux XIe et XIIe siècles - Nabil SHEHABY, The influence of stoic logic on Al-Jassas's legal theory - Josef VAN ESS, The beginnings of Islamic theology - Mushin MAHDI, Science, philosophy and religion in Alfarabi's Enumeration of the sciences - Richard MCKEON, The organization of sciences and the relations of cultures in the twelfth and thirteenth centuries - Tullio GREGORY, La nouvelle idée de nature et de savoir scientifique au XIIe siècle - BRIANSTOCK, Experience, praxis, work and planning in Bernard of Clairvaux: Observations on the Sermones in cantica - John E. MURDOCH, From social into intellectual factors: an aspect of the unitary character of late medieval learning - Edith D. SYLLA, Autonomous and handmaiden science: St. Thomas Aquinas and William of Ockham on the physics of the Eucharist - Heiko A. OBERMAN, Reformation and revolution : Copernicus's discovery in an Era of Change - Guy BEAUJOUAN, Réflexions sur les rapports entre théorie et pratique au moyen âge - Charles B. SCHMITT, Philosophy and science in sixteenth century universities : some preliminary comments. ISBN: 9027705607
815. **[MURDOCH, John Emory] LÜTHY, Christoph** (editor). *Early Science and Medicine; A Journal for the Study of Science, A Journal for the Study of Science, Technology and Medicine in the Pre-modern Period. Edited by Christoph Lüthy*. Volume XIV. Leiden & Boston: Brill, 2009. 8vo. 439 pp. Occasional figs. Printed wrappers. Very good. SCARCE.

\$ 175

Contents: Volume 14, Numbers 1-3, 2009: "Evidence and Interpretation: Studies on Early Science and Medicine in Honor of John E. Murdoch." ¶ Newman, William R.; Sylla, Edith Dudley, "Introduction", De Groot, Jean, "Modes of

Explanation in the Aristotelian Mechanical Problems,” Schiefsky, Mark, “Structures of Argument and Concepts of Force in the Aristotelian Mechanical Problems,” ¶ Sabra, A.I., “The Simple Ontology of Kalām Atomism: An Outline,” ¶ Kheirandish, Elaheh, “Footprints of “Experiment” in Early Arabic Optics,” ¶ McVaugh, Michael, “The “Experience-Based Medicine” of the Thirteenth Century,” ¶ Raizman-Kedar, Yael, “The Intellect Naturalized: Roger Bacon on the Existence of Corporeal Species within the Intellect,” ¶ Marrone, Steven P. “Magic and the Physical World in Thirteenth-Century Scholasticism,” ¶ Thijssen, Johannes M.M.H. “The Debate over the Nature of Motion: John Buridan, Nicole Oresme and Albert of Saxony. With an Edition of John Buridan’s Quaestiones super libros Physicorum, secundum ultimam lecturam, Book III, q. 7,” ¶ Sylla, Edith Dudley, “John Buridan and Critical Realism,” ¶ Newman, William R., “Late Medieval, Renaissance, and Early Modern, The Significance of ‘Chymical Atomism’,” ¶ Martin, Craig, “Conjecture, Probabilism, and Provisional Knowledge in Renaissance Meteorology,” ¶ Shank, Michael H., “Setting up Copernicus? Astronomy and Natural Philosophy in Giambattista Capuano da Manfredonia’s Expositio on the Sphere,” ¶ Goddu, André, “Copernicus’s Mereological Vision of the Universe,” ¶ Zhang, Qiong, “From “Dragonology” to Meteorology: Aristotelian Natural Philosophy and the Beginning of the Decline of the Dragon in China,” ¶ Davenport, Anne A. “Baroque Fire (A Note on Early-Modern Angelology),” ¶ Lüthy, Christoph; Smets, Alexis, “Words, Lines, Diagrams, Images: Towards a History of Scientific Imagery.”

BL2947

George Ellery Hale’s Copy With His Signature

816. [NAGAOKA, Hantaro (1865-1950)]. *Anniversary Volume Dedicated to Professor Hantaro Nagaoka by His Friends and Pupils on the Completion of Twenty-Five Years of His Professorship*. Tokyo: [Privately published], 1925. 4to. xvi, 422, (423) pp. 19 half-tone plates with tissue guards (a few with tissue overlays), figs., tables. Maroon cloth, gilt-stamped cover and spine titles; spine ends frayed, covers lightly faded. Former library copy with the usual markings and defects. SIGNATURE OF GEORGE ELLERY HALE. Fair. Scarce. Z1496

§ 200

One of 1,280 copies printed. This work features 41 advanced mathematical papers in English by Japanese scientists. Biographical and bibliographical information is useful, but the bulk of this publication reflects the influence of Nagaoka through the research of his students. A 4 pp. errata sheet is loosely placed in. George Ellery Hale’s copy, with his penciled ownership signature.

817. NASMYTH, James Hall (1808-1890); SAMUEL SMILES [ed.]. *James Nasmyth, Engineer: An Autobiography. Illustrated. New Edition, Revised and Corrected for American Readers by James Nasmyth*. New York: Harper & Brothers, 1884. 8vo. xvii, 461, ads. [2] pp. Frontis. port. of Nasmyth, plates, illustrations, index. Brown cloth, gilt-stamped cover illustration and spine title; extremities rubbed with a few stains. Very good. Z1498

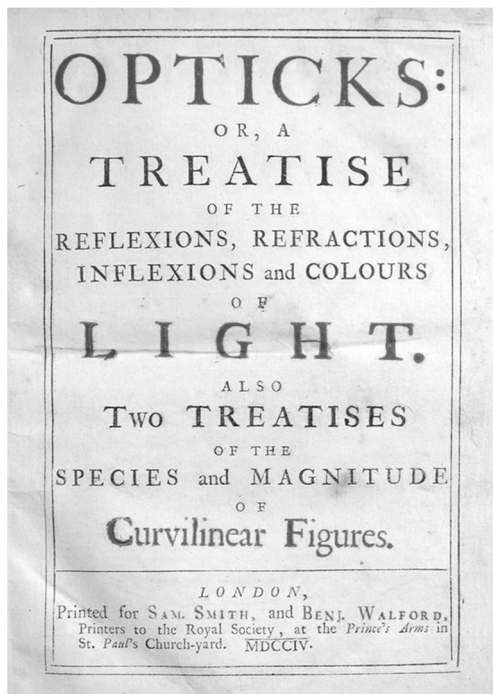
§ 35

818. **National Research Council**. *List of Publications of the National Research Council and Its Fellows and Partial List of Papers Having Their Origin in the Activities of Its Committees to January 1, 1926*. Washington, D.C.: National Research Council, 1926. Series: Reprint and Circular Series of the National Research Council, No. 73. 8vo. 70 pp. Original printed wrappers; spine ends chipped. Former library copy with the usual markings. Very good. Z1499

§ 20

819. **National Maritime Museum & David W. WATERS.** *The Planispheric Astrolabe.* Greenwich: National Maritime Museum, (1976). 8vo. 56 pp. Illus., diag. Printed wrappers. Very good. ISBN: 0950176457 [BH] \$ 12
820. **NEEDHAM, Joseph.** *Science and Civilisation in China. Volume I: Introductory Orientations.* Cambridge: University Press, 1954. Tall 8vo. xxxviii, 318 pp. 36 illustrations on 13 plates, 2 folding maps. Cloth, dust-jacket; jacket worn. Bookplate of Roger Hahn. Very good. \$ 45
821. **NEU, John** [ed.]; **Samuel IVES, Reese JENKINS,** & **John NEU** [comp.]. *Chemical, Medical and Pharmaceutical Books Printed before 1800 in the Collections of the University of Wisconsin Libraries.* Madison and Milwaukee: University of Wisconsin, 1965. FIRST EDITION. 8vo. viii, 280 pp. Brown cloth, gilt-stamped spine title, dust-jacket. Very good. Z1503 \$ 10
822. **NEUGEBAUER, Otto & A. SACHS** (eds.). *Mathematical Cuneiform Texts.* With a chapter by A. Goetze. [Series]: *American Oriental Series*, vol. 29. New Haven: American Oriental Society and the American Schools of Oriental Research, 1945. 4to. x, 177 pp. 2 columns. Map, 23 monochrome plates, photographic reproductions (numbered 24-49). Original dark green blind and gilt-stamped cloth. Bookplate of Barnabas Hughes. Very good +. [BH] \$ 55
823. **NEWCOMB, Simon** (1835-1909). *Astronomy for Everybody; a popular exposition of the wonders of the heavens. With an introduction by Sir Robert S. Ball.* London: Isbister and Company Limited, 1903. Sm. 8vo. xv, 341 pp. Frontispiece, 64 illustrations. School Prize binding for Wolverhampton Grammar School, bound in full navy calf, gilt-stamp of school emblem, elaborate spine gilt and two reddish spine labels, a.e. marbled; rubbed, endleaves scarred. School Prize presentation plate, Midsummer 1905, awarded to N.R. Lowder, Science Prize, signed by James Harvey Hichens, M.A., Head Master; signature of Joan Lowder. Generally very good. \$ 45
- Provenance: Noel Reginald Lowder (1891?-1917) "Second Lieutenant in the 1st Battalion, Royal Warwickshire Regiment, was the younger son of Mr. W. H. Lowder of Paget Road, Wolverhampton" [more on request].
- James Harvey Hichens (1859-1938) was born at Redruth, in Cornwall, in 1859. He was educated at Epsom College and at The Queen's College, Oxford. The son of a doctor, he was intended for the medical profession, but Chemistry became his main interest, and it was in this subject that he took his degree (B.A., 1886; M.A., 1888). "On his retirement in 1926, Dr. Hichens went to live at Paignton. He was awarded the honorary degree of LL.D. by the University of Sheffield in 1927. He died on September 12th, 1938." - *KES Magazine*, December 1938.
824. **NEWCOMB, Simon** (1835-1909). *The Reminiscences of an Astronomer.* Cambridge: The Riverside Press, 1903. 8vo. x, 424 pp. Frontispiece portrait of the author, index; index browned due to offsetting of the author's obituary newspaper notice from 1909 (clipped and saved). Navy gilt-stamped cloth; spine ends a bit worn. Bookplate of Elwyn B. Gould (1854-1933). Good. \$ 45
- Newcomb received numerous degrees and honors abroad than any other American man of science.

825. **NEWCOMB, Simon** (1835-1909). *Popular Astronomy*. New York: Harper & Brothers, 1882. Fourth edition. 8vo. xviii, 377, 12 pp. Frontispiece, 112 illustrations, 5 star-maps, ads., index. Original brown blind and gilt-stamped cloth; paste-down endleaves damaged due to pulled tape (re-colored). Ownership signature of Mary Maitland, 1884. Good. \$ 20
826. [**NEWCOMB, Simon** (1835-1909)] **Bill CARTER & Merri Sue CARTER**. *Simon Newcomb: America's Unofficial Astronomer Royal*. (St. Augustine): (Mantanzas, 2006). 8vo. xiv, 213 pp. Index. Dark blue cloth, gilt-stamped spine title, dust-jacket. Fine. Z1504 \$ 25
827. [**NEWCOMB, Simon** (1835-1909)] **Charles K. WEAD**, et al. *Simon Newcomb. Memorial Addresses*. Washington: Philosophical Society of Washington, 1910. Series: Philosophical Society of Washington, Bulletin, Vol. XV, pp. 133-167. 8vo. 35 pp. Frontis. port. of Newcomb. Original printed wrappers; spine hinge repaired. Good. Z1942 \$ 8
828. **NEWTON, Isaac**. *Newton's Philosophy of Nature: Selections from His Writings*. Edited and arranged with notes by H.S. Thayer. Introduction by John Herman Randall, Jr. New York: Hafner Press, (1974). 8vo. Printed wrappers; edges foxed, some minor cover nicks. Very good. \$ 4
829. **NEWTON, Isaac**. *Newton: A Norton Critical Edition. Texts, backgrounds, commentaries. Selected and Edited by I. Bernard Cohen and Richard S. Westfall*. New York: W.W. Norton, (1995). 8vo. xv, 436 pp. Figs., glossary. Printed wrappers. Very good. ISBN: 0393959023 \$ 15



ONE OF THE GREATEST STATEMENTS OF EXPERIMENTAL SCIENCE
AND A FOUNDATION OF OPTIC AND THE STUDY OF LIGHT

Dr. Charles Bernard's Copy

830. **NEWTON, Isaac.** *Opticks: Or, a Treatise of the Reflexions, Refractions, Inflexions and Colours of Light. Also Two Treatises of the Species and Magnitude of Curvilinear Figures.* London: Printed for Sam. Smith & Benj. Walford, Printers to the Royal Society, 1704.

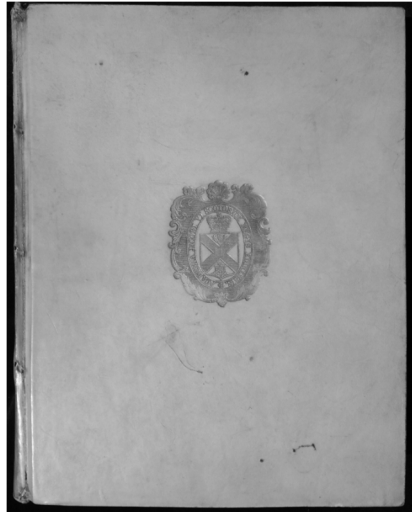
Two parts in one volume. 24.2 x 19 cm. 4to. [iv], 144, 211, [1] pp. Title printed in red and black, 19 folding engraved plates/diagrams, errata page; title lower margin trimmed (early signature on upper and lower edges of title are faded and cannot be read without an infrared lamp, some light foxing - the plates are remarkably clean and free of tears. Presentation binding in nineteenth-century full vellum with the covers gilt-stamped with the emblem of the University of Edinburgh [“Academia Jacobi VI Scotorum Regis Edinensis” (founded in 1582)], calf gilt-stamped spine label, edges red. Small faint red-stamp of “WTB” [or “WTS”?]. Inscribed for Thomas Smith, presented as a Prize in the Natural Philosophy Class, University of Edinburgh, Session 1852-3, Philip Kelland. A very small ink inscription at rear reads: “1 Nov. 1915 / 540 / Washington”. Title-page with the obscured signature of CHARLES BERNARD (1650-1711) member of the Royal Society and noted physician (partly trimmed).

\$ 55,000

First issue of the first edition, issued anonymously with only the initials “I.N.” at the end of the advertisements.¹

“Newton’s *Opticks* did for light what his *Principia* had done for gravitation, namely, placed it on a scientific basis.” - Ernest William Brown, Yale University.

Newton utilized both experimental and mathematical investigations of light. At the heart of his work is the observation that the spectrum of colors is stretched along its axis, together with his experimental proof that rays of different colors are refracted to different extents. This causes the stretching, or dispersions, of the spectrum. All previous philosophers and mathematicians had been sure that white light is pure and simple, regarding colors as modifications or qualifications of white. Newton showed experimentally that the opposite is true: there are pure colored rays which cannot be analyzed by refractions, such as the green of the spectrum; just as there are colored rays which can be analyzed, such as the green formed by mixing blue and yellow light. Natural white light, far from being simple, is a compound of many pure elementary colors



¹ The second issue, from the same year, bears Newton's name on the title-page, but lacks the two treatises and has only twelve plates.

which can be separated and re-compounded at will. This edition of the *Opticks* also contained the first printing of the two treatises on curvilinear figures which contain Newton's invention of fluxional calculus. This, he stated, he had discovered in 1665-1666 and thus claimed priority over Leibniz, stirring up a controversy which agitated mathematicians for nearly two hundred years.

"In his *Opticks*, one of the supreme productions of the human mind, Newton sets down with beautiful precision and elegance the substances of these early papers, and much besides. The proof that a precise refrangibility is an unalterable characteristic of monochromatic light, and that sunlight is a mixture of all colours; the explanation of the rainbow; the revolutionary discussion of natural colours, with the clear distinction between additions and subtraction colours; the explanation of colour mixture; the investigation of the colours of thin films, such as those displayed by soap bubbles and Newton's rings; some acute experiments on diffraction - these are some of the treasures contained in the *Opticks*. There are appended to the book certain "Queries" which contain some of Newton's most daring speculations. Newton's *Opticks* was composed in English and the Latin translation by another hand, was not published till 1706. He was as supreme in experiment as he was in theory, and when he chose, as in the *Opticks*, unrivaled as an expositor." - E.N. da C. Andrade.

This copy is bound in a Presentation binding for the University of Edinburgh in full vellum and given as a class Prize awarded to Thomas Smith in the Natural Philosophy Class, "for mounting + photographing microscopic objects" University of Edinburgh, Session 1852-53, P. Kelland" [University of Edinburgh]. With Kelland's signature.

PROVENANCE: The original owner of this copy was Dr. Charles Bernard (1650-1711), surgeon [Bernard was Royal Surgeon to Queen Anne from 1702²; who died in 1714 from suppressed gout], and a fellow member of the Royal Society. Bernard signed this book on the upper right corner of the title-page, which is presently rubbed off (but readable under a black light). This very copy appears for sale in the Jacob Hooke [bookseller] catalogue of Dr. Bernard's library auction, *Bibliotheca Bernardiana*, sold London, March 22, 1711. See lot 878 under "English Books" "Quarto" page 196. For a biography of Bernard see the *Dictionary of National Biography*, vol. IV, p. 377. "His library, which he collected with regard to the beauty as well as the intrinsic merit of the books, was sold after his death (*Bibliotheca Bernardiana*)." The sale catalogue is partly annotated and the only note for this book is the letter "W" - could this be the man who married Dr. Bernard's daughter, Dr. William Wagstaffe (1685-1725) onetime physician to St. Bartholomew's Hospital?

Despite a lot of searching it has become evident that it is difficult to learn the history of Thomas Smith (since several people have the same name). However, Kelland is well known: Philip Kelland, PRSE FRS (17 October 1808—8 May 1879), was an English mathematician known for being the first Englishman with an entirely

2 Anne succeeded William III in 1702: ascended the thrones of England, Scotland and Ireland on 8 March 1702. On 1 May 1707, under the Act of Union, two of her realms, the kingdoms of England and Scotland, united as a single sovereign state: the united kingdom of Great Britain.

English education who was admitted to a chair in the University of Edinburgh. He was known for teaching mathematics and natural philosophy and among his students was James Clerk Maxwell. "He studied at Queens' College, Cambridge and was coached privately by William Hopkins, graduating in 1834 as senior wrangler and first Smith's prizeman." [Alex D.D. Craik, University of St. Andrews, Scotland, School of Mathematics & Statistics database]. He was known mainly for his great influence on the development of education in Scotland. Kelland was appointed Professor of Mathematics at the University of Edinburgh in 1838. He was a successor to Scottish mathematician William Wallace. He became the first English-born and wholly English-educated mathematician to hold that chair. Kelland was elected Fellow of the Royal Society in 1838 and Fellow of the Royal Society of Edinburgh in 1839. He was President of the Royal Society of Edinburgh during 1878-79 (dying in office). *DNB*, vol. XXX [Kelland].

This copy owned in 1966 by Zeitlin & Ver Brugge Booksellers.

☼ Babson 132; Dibner *Heralds of Science*, 148; *DSB*, X, pp. 53-60; Gray 174; Horblit 79b; *Roy G. Neville Historical Chemical Library*, II, p.223; *Haskell Norman Library* 1588; *Honeyman Sale* 2324; *Bibliotheca Osleriana* 1027; *Printing and the Mind of Man* 172; Sparrow, *Milestones of Science*, 150; Wallis 174.2; Wolf, I, p.267.

See: Newton, Isaac. *Opticks or, a treatise of the reflexions, refractions, inflexions and colours of light : also two treatises of the species and magnitude of curvilinear figures*. Commentary by Nicholas Humez (ed.). Palo Alto, 1998. \$11504

831. [NEWTON] *A Descriptive Catalogue of the Grace K. Babson Collection of the Works of Sir Isaac Newton and the Material Relating to Him in the Babson Institute Library, Babson Park, Mass. With an Introduction by Roger Babson Webber*. New York: Herbert Reichner, 1950. 8vo. xiv, 228 pp. Gravure frontis. port. of Newton bust, 19 additional plates, index. Light red cloth, gilt-stamped cover facsimile signature and spine title. Near fine. Z1506

\$ 125

Limited Edition of 750 copies. [with:] MACOMBER, Henry Percy (comp.). *A Supplement to the Catalogue of the Grace K. Babson Collection of the Works of Sir Isaac Newton and Related Material in the Babson Institute Library, Babson Park, Massachusetts*. (Babson Park): Babson Institute, 1955. 8vo. viii, 91 pp. Index. Light red cloth, gilt-stamped cover facsimile signature and spine title. Near fine. Limited Edition of 450 copies.

832. [NEWTON, Isaac (1642-1727)] Valentin BOSS. *Newton and Russia: The Early Influence, 1698-1796*. Cambridge, MA: Harvard University Press, 1972. FIRST EDITION. Series: Russian Research Center Studies, 69. 8vo. xviii, 309 pp. Frontis. port. of Newton, plates, index. Magenta cloth, silver stamped spine title, dust-jacket; jacket lightly soiled with tiny chip to rear cover. Near fine. ISBN: 0674622758 Z1507 \$ 8.50

833. [NEWTON] David H. CLARK & Stephen P. H. CLARK. *Newton's tyranny; the suppressed scientific discoveries of Stephen Gray and John Flamsteed*. New York: W. H. Freeman, (2001). First printing. Small 8vo. xvi, 188 pp. Bibliog., index. Quarter cloth, gilt spine, dust-jacket. Fine. \$6140 \$ 20

834. [NEWTON, Isaac (1642-1727)] **John CRAIG**. *Newton at the Mint*. Cambridge: Cambridge University Press, 1946. FIRST EDITION. 8vo. (iii), 128 pp. Frontis. port. medal of Newton, 3 plates, index; neatly written notes in pen. Red cloth, blind stamped cover illustration and silver stamped spine title, dust-jacket; jacket rear hinge split (now preserved neatly in Mylar). Bookplate of James Axtell. Useful scholarly account of one of Newton's many areas of interest and activity. Generally, a very good copy. Z1509 \$ 40
835. [NEWTON] **Betty Jo Teeter DOBBS**. *The Foundations of Newton's Alchemy or "The Hunting of the Green Lyon."* Cambridge, et al.: Cambridge University Press, (1975). FIRST EDITION. 8vo. xv, 300 pp. 4 plates, tables, index. Yellow cloth, gilt-stamped black spine label, dust-jacket. Very good. ISBN: 052120786X; Z1730 \$ 225
Rare. Ground breaking scholarly treatise on a little studied aspect of Newton's thinking. The bibliography and references should be especially useful for anyone interested in the issues.
836. [NEWTON] **P.M. HEIMANN, & J.E. McGUIRE**. *Newtonian Forces and Lockean Powers: Concepts of Matter in Eighteenth-Century Thought*. Philadelphia: University of Philadelphia Press, 1971. Offprint. Series: Historical Studies in the Physical Studies, vol. 3, 1971. 8vo. pp. 233-306. Printed wrappers. Title inscription in ink on upper cover. Fine. \$ 20
837. [NEWTON] **B. HESSEN**. *The Social and Economic Roots of Newton's 'Principia'*. Sydney: Current Book Distr., 1946. Sm. 8vo. 88 pp. Pencil marginalia, underlining, some brittleness and related tears to extremities. Original green printed pictorial wrappers, joint splitting. Ownership signatures of William Duane Stahlman and David C. Lindberg. Good. \$ 10
838. [NEWTON] **J.A. LOHNE & B. STICKER**. *Newton's Theorie der Prismenfarben; Mit Übersetzung und Erläuterung der Abhandlung von 1672*. Munich: Werner Fritsch, 1969. Series: *Neue Münchner Beiträge zur Geschichte der Medizin und Naturwissenschaften*, Heft 1. 8vo. 47 pp. Printed wrappers. Fine. INSCRIBED COPY FROM THE AUTHOR LOHNE, with his initials [to David C. Lindberg]. Scarce. \$ 45
Inhalt [Contents]: Newton und die Farben – Zur Vorgeschichte der Farbenlehre – “Neue Theorie über Licht und Farben” (1672) – Erläuterungen zur Abhandlung – Zur Beurteilung – Literaturverzeichnis – Newtons Schriften zur Optik – Weiteres Schrifttum zur Farbenoptik. With typed corrigenda from the author (his initials).
839. [NEWTON] **J.E. McGUIRE**. *Atoms and the 'Analogy of Nature': Newton's third rule of philosophizing*. Within: *Studies in History and Philosophy of Science*. London, (London): May 1970. Volume 1, no. 1. 8vo. 89 pp. Printed wrappers. Fine. Includes: Paul Feyerabend, “In Defence of Classical Physics.” \$ 15
840. [NEWTON] **J.E. McGUIRE**. *Body and Void and Newton's De Mundi Systemate: Some New Sources*. Communicated by J.R. Ravetz. Berlin, New York: Springer, 1966. Offprint. Series: *Archive for History of Exact Sciences*, vol. 3, no. 3, 1966. 8vo. pp. 206-248. Printed wrappers. INSCRIBED TO [David C. Lindberg] from the author. \$ 45

841. [NEWTON, Isaac] Henry PEMBERTON. *A View of Sir Isaac Newton's Philosophy*. London: S. Palmer, 1728.

Large 4to. [48], 407 pp. Engraved title-page vignette by J. Pine after an original by J. Grison, T3 neat tear repair at gutter. Modern half calf over marbled paper-backed boards, gilt-stamped spine and black leather spine label, in quarter gilt-stamped morocco over red cloth slip-case from the Honeyman Collection; slip-case lightly scuffed. Near fine in very good slip-case. The Robert Honeyman copy (rebound). Honeyman commissioned slip-case.

\$ 1000

FIRST EDITION of Pemberton's work on Newton's philosophy, containing both recollections by Pemberton of Newton, and a lengthy poem about Newton by Richard Glover (1712-1785). Dedicated to Sir Robert Walpole, whose coat of arms is engraved in the title-page vignette, this volume commemorates Newton and his works, being published the year following his death. The volume is divided into three books: *Concerning the Motion of Bodies in general*, *Concerning the System of the World*, and *Concerning the cause of colours inherent in the light*, combining the essential discoveries and works of Newton as expounded in *Philosophiæ Naturalis Principia Mathematica* and *Opticks*, two of his most important works. The foundations of modern physics, astronomy, gravitation and light are represented in this compendium.

"Dr. Pemberton studied under Boerhaave, prepared the Fifth London Pharmacopoeia and was invited by Newton to edit the third (1726) edition of the *Principia*. This study of Newton's philosophy is interesting as being the account of a close friend. The preface contains the author's recollections of Newton, especially in his old age. There is also a poem on Sir Isaac by Richard Glover (poet and M.P., 1712-1785) written in his 16th year; the author's introduction on Newton's method of reasoning in philosophy; and a long list of subscribers." [Babson]. Typographically this volume is important as the first book printed in any of William Caslon's roman types. Also notable are the elegant pictorial head- and tail-pieces engraved by J. Pine after J. Grison.

"Pemberton's work on the mechanism of accommodation was nearly his last independent work, for he was determined to join the circle of Newton's epigones. He attempted, unsuccessfully, to approach the master through John Keill. But Richard Mead, Newton's friend and physician, showed Newton a paper in which Pemberton refuted Leibnitz' measurement of the force of moving bodies - an obsequious essay larded with references to 'the great Sir Isaac Newton.' Although the measure of the force of moving bodies was not an issue germane to Newtonian mechanics, Newton was apparently pleased with the attack on Leibnitz. He made Pemberton's acquaintance, and Pemberton sought to cement the relation by contributing another obsequious essay on muscular motion, which converted itself into a panegyric on Newtonian method, to Mead's edition of Cowper's *Myotomia reformata*, completed in 1723 and published in 1724" (*DSB*, Vol. X, pp. 500-501).

✧ Babson 98; *DSB*, Vol. X; Gray 132; Honeyman 2442; Sotheby, *Honeyman Collection*, VI, lot 2442 (1980); Wallis 132.

842. [NEWTON, Isaac (1642-1727)] C. S. SLICHTER. "Sir Isaac Newton." Offprint from: *Bulletin No. 14 of the Investigation of Engineering Education*, [no date]. (230 x 155 mm). (230)-249 pp. Printed wrappers. Previous owner's penciled signature on front cover. Very good. Z1944 \$ 10
843. [NEWTON, Isaac] David TOPPER. "Newton on the Number of Colours in the Spectrum." Within: *Studies in History and Philosophy of Science*. [Pages 269-279]. Oxford & New York: Pergamon Press, June 1990. Volume 21, no. 2. 8vo. 183-349 pp. Figs. Printed wrappers; rear corner bent. Very good. \$ 27
- "In his *Opticks* (1704), Newton described the spectrum of white light as divided into seven distinct colours, a system subsequently adopted almost universally. But Newton's Optical Lectures of 1670-1672 reveal that he initially saw only five colours (red, yellow, green, blue, and violet). Several hypotheses have been put forward to explain Newton's addition of orange and indigo, the most recent and seemly persuasive being that Newton drew upon the analogy between colour and music (specifically the seven-tone scale of the octave). The argument presented here will qualify that thesis, with the emphasis instead being upon aesthetic factors (independent of external analogies) playing a key role in Newton's thinking." With seven other papers including Craig G. Fraser, "Lagrange's Analytical Mathematics, its Cartesian Origins and Reception in Comte's Positive Philosophy."
844. [NICHOLS, John Augustus (1822-1868)] Adolph WERNER. "John Augustus Nichols, LL.D." Offprint: 1869 *Proceedings of the University Convocation held August 3rd, 4th and 5th, 1869*. (230 x 145 mm). 582-586 pp. Printed wrappers. Very good. Z1945 \$ 20
845. [NIJLAND, Albertus Antonie (1868-1936)] J. VAN DER BILT. *In Memoriam: Prof. Dr. Albertus Antonie Nijland*. Groningen: J.B. Wolters, 1936. 8vo. 6 pp. Frontis. port. of Nijland. Printed wrappers. Very good. Z1948 \$ 10
846. NILSSON, Martin P. (1874-1967). *Primitive Time-Reckoning; A study in the origins and first development of the art of counting time among the primitive and early cultural peoples*. Lund: C.W.K. Gleerup; London: Humphrey Milford; Oxford: University Press, 1920. Series: *Skrifter Utgivna av Humanistiska Vetenskapssamfundet i Lund*, I. 8vo. xiii, 384 pp. Index. Original quarter vellum, plain boards, manuscript spine title. Ink ownership signatures of Alexandri Philip (1921), William Duane Stahlman, and David C. Lindberg. \$ 45
- This copy bears a manuscript note indicating the volume is bound by hand by David Waterson, R.E. Stahlman wrote a paper for *ISIS*, "Astronomical Dating Applied to a Type of Astrological Illustration," (1956). He received his Ph.D. from Brown in 1960; then he wrote with Owen Gingerich, *Solar and Planetary Longitudes for Years -2500 to +2000 by 10 Day Intervals*, (1963). BL2948
847. NORMAN, Haskell; Diana HOOK. *The Haskell F. Norman Collection of Science & Medicine. Selections exhibited for the International Congress of Bibliophiles*. San Francisco: Jeremy Norman & Co. Inc., 1985. 8vo. 44 pp. Black & white illustrations. Stiff blue printed wrappers. The first exhibition of selections from the Haskell F. Norman Library. This was Haskell F. Norman's personal choice of his favorites from the library. The exhibition included many of the association and presentation copies for which the library became famous. Fine.

Limited edition of 1000 printed by the Arion Press, with 125 copies reserved for the members of the Roxburghe Club. \$ 20

848. **[NOVALIS (1772-1801)] Bergakademie Freiberg. Friedrich von Hardenberg (Novalis) 1772-1801. Festgabe der Bergakademie Freiberg in Sachsen anlässlich der Gründung der Novalis-Gesellschaft.** Freiberg: Der Rektor der Bergakademie Freiberg, 1992. (295 x 200 mm). essays 8 pp.; reproduction 12 fl.; transcription 773-791 pp. Tipped in color port. of von Hardenberg with facsimile signature. Self-wraps, housed in printed folder. A commemorative folder including essays on von Hardenberg (Novalis) and a facsimile reproduction of an 1800 manuscript report from Novalis to his mentor Abraham Gottlob Werner (with accompanying print transcription). Very good. Z1949 \$ 50
849. **NUMBERS, Ronald L.; Darrel W. AMUNDSEN (editors). Caring and Curing; Health and Medicine in the Western Religious Traditions.** New York: Macmillan, (1986). 8vo. xx, 601 pp. Index; ink underlined. Cloth. INSCRIBED BY THE AUTHOR TO David C. Lindberg. Very good (noting underlining). ISBN: 0029192706 / 0-02-919270-6 \$ 8
850. **NUMBERS, Ronald L. The Creationists.** New York: Alfred A. Knopf, 1992. 8vo. xvii, 458 pp. 25 illus., index. Cloth, dust-jacket. INSCRIBED BY THE AUTHORTO David C. Lindberg, "To my friend ..., without whose encouragement this book would never have been written. With admiration & affection,..." Fine. ISBN: 0679401040 \$ 22
851. **OBERMAN, Heiko Augustinus. Masters of the Reformation; The Emergence of a New Intellectual Climate in Europe. Translated by Dennis Martin.** Cambridge: Cambridge University Press, (1981). 8vo. xiii, 369 pp. Map, index. Cloth, dust-jacket. Ink ownership signature of David C. Lindberg. Fine. \$ 40
FIRST ENGLISH EDITION. This is a "general survey of academic thought and its impact on a wider world from the later Middle Ages to the emergence of Luther and city Reformation." ISBN: 0421230985 BL2953
852. **[Observatory Magazine] Ernest George MARTIN [comp.]. The Observatory. General Index to Volumes 1-75, 1877-1955.** Hailsham, Sussex: Published by the Editors of "The Observatory", 1959. 8vo. 180 pp. Printed wrappers. Very good. Z1521 \$ 20
853. **[OCKHAM] Katherine H. TACHAU. Vision and Certitude in the Age of Ockham; a thesis submitted in partial fulfillment Madison: University of Wisconsin, 1981.** Ann Arbor: University Microfilms, [no date]. Photocopy facsimile of this 1976 dissertation. 8vo. vii, 380 pp. Printed wrappers. Ink ownership signature of David C. Lindberg. Very good. \$ 35
Later issued by Brill in a published book. Tachau is a Professor of Medieval Intellectual History, History of Science Medieval Universities Latin Paleography History of Medieval Manuscript Book, at the University of Iowa.
854. **[OERSTED, Anders Sandøe (1816-1872)] Robert BROWN (1842-1895). "Biographical Sketch of the Late Professor OErsted, Copenhagen." Offprint. Edinburgh: Transactions of the Botanical Society of Edinburgh, 18972-73. Vol. XI.**

(220 x 140 mm). 10 pp. Original paper wrappers. SIGNED PRESENTATION INSCRIPTION FROM THE AUTHOR on the front cover. Brown was a prominent botanist and explorer. He often referred to his hometown of Campster in connection with his name in order to distinguish himself from his famous contemporary of the same name, Robert Brown of Montrose. Very good. Z1954 \$ 45

855. **OERSTED, Hans Christian.** *The Soul in Nature, with supplementary contributions. Translated from the German by Leonora and Joanna B. Homer.* London: Henry G. Bohn, 1852. Sm. 8vo. xlv, 465 pp. Engraved frontispiece with tissue guard. Original full red blind-stamped publisher's cloth, gilt spine title; joints worn, tear to spine, corners showing, front hinge cracked. Good. Scarce.

\$ 25

Hans Christian Ørsted (1777 - 1851), Danish physicist and chemist who discovered that electric currents create magnetic fields, an important aspect of electromagnetism. Written shortly before his death, *The Soul in Nature* represents a collection of articles elucidating Ørsted's life philosophy and views on a wide variety of issues including natural philosophy, science, reason, Christianity and astronomy. Added to this volume is a biography of the author.

856. **OGILVY, C. Stanley** (1913-2000). *Tomorrow's Math; unsolved problems for the amateur. Second edition.* New York: Oxford University Press, 1972. Sm. 8vo. 198 pp. Figs., index. Black gilt-stamped cloth, dust-jacket; jacket torn at upper spine. Very good. [BH]

\$ 8

857. **OLBERS, Wilhelm** (1758-1840)] **D. WATTENBERG.** *Olbers als Kometenforscher. Nach einem Vortrag in der Berliner Astronomischen Vereinigung.* Berlin: G. Schönfeld's Verlagsbuchhandlung, 1937. Series: Das Weltall, 37. Jahrgang, Heft 7, 1937. 8vo. 8 pp. Illustrations. Printed wrappers. Rubber stamp on front cover. Fine. Z1956

\$ 10

858. **OLDENBURG, Henry.** *The Correspondence of Henry Oldenburg. Edited and Translated by A. Rupert Hall and Marie Boas Hall. [1641-1670].* Madison and London: University of Wisconsin Press, 1965-1969. 6 volumes, nos. 1-6 (13 have been issued). Large 8vo. Each volume is about 500 pages. Illus., indexes. Cloth, dust-jackets; jackets worn, vol. I lower corner bumped. Bookplates with the name H.L. Taylor, M.D. written on them. Good set.

\$ 150

"The correspondence of Henry Oldenburg presents an unparalleled picture of the intellectual life of the late seventeenth century. ... Oldenburg conducted a vast correspondence with the most important scientists of his day, English and Continental. Nearly all of the major ideas embraced by the scientific revolution of the seventeenth century passed through his hands." - jacket. "Oldenburg, Henry (c. 1618-1677), secretary to the Royal Society of London. Henry Oldenburg was born in Bremen, Germany, around 1618. After graduating with an M.A. from the Gymnasium Illustre in Bremen in 1639, he traveled in Europe until 1653, when he went to England on a diplomatic mission for Bremen. Thereafter he resided in London, where he made the acquaintance of John Dury, Samuel Hartlib, John Milton, Thomas Hobbes, Robert Boyle, and Boyle's sister Lady Ranelagh, to whose son, Richard Jones, future Earl of Ranelagh, he became tutor. In 1660 he was associated with Boyle's circle at Gresham College. In 1661 he joined the newly founded Royal Society, to which he was appointed as one of two secretaries in 1662. Oldenburg was twice married, first to Dorothy West (d. 1665), whom he

married in 1663, and secondly to his ward, Katherina Dury, whom he married in 1668 and with whom he had two children, Rupert and Sophia.”

“As secretary to the Royal Society, Oldenburg was responsible for keeping records of the Society’s meetings and for maintaining its correspondence with thinkers and scientists throughout Europe, including such figures as Johannes Hevel, Christiaan Huygens, Marcello Malpighi, Antoni van Leeuwenhoek, and Nicolaus Steno. In this capacity, Oldenburg played an important role as publicist, promoter, and information gatherer for the new science. The success of this owed much to him personally, to his wide command of languages, his broad range of contacts, and his personal interest in the new science. He established the *Philosophical Transactions* of the Royal Society (first published in 1665) as an important vehicle for scientific interchange that helped to shape the Baconian and experimentalist character of Royal Society science.” <http://www.answers.com/topic/henry-oldenburg>

859. **[OPPOLZER, Theodor von] M. LOEWY.** “Notice sur la Vie et les Travaux de M. Oppolzer.” Extract from: *Bulletin Astronomique*, Janvier 1887. (250 x 155 mm). 7 pp. Printed wrappers. Previous owner’s inked signature. Very good. Z1950 \$ 8
860. **ORE, Oystein** (1899-1968). *Number Theory and its History*. New York: McGraw-Hill, 1948. 12mo. x, 370 pp. Frontispiece, figs., illus., index; small ink notation on title. Gray red-stamped cloth; lightly rubbed. Bookplate of Bamabas Hughes. Very good. [BH] \$ 5
861. **ORESME, Nicole; Edward GRANT.** *Nicole Oresme: De proportionibus proportionum and Ad pauca respicientes: Edited with introductions, English translations, and critical notes by Edward Grant*. Madison, Milwaukee & London: The University of Wisconsin Press, 1966. Series: *University of Wisconsin Publications in Medieval Science*. 8vo. xxii, 466 pp. Index. Blue cloth. Ink ownership signature of David C. Lindberg. Very good. \$ 35
862. **[ORESME, Nicole] G.W. COOPLAND.** *Nicole Oresme and the Astrologers; a Study of his Livre de Divinacions*. Cambridge: Harvard University Press, 1952. 8vo. vii, 221 pp. 1 illus., index. Cloth, dust-jacket. Ink ownership signatures of William Duane Stahlman and David C. Lindberg. Very good. \$ 35
- With the original French text, English translation, and the Latin text of Oresme’s *Tractatus contra Astronomos*. ¶ [PROVENANCE]: Stahlman wrote a paper for *ISIS*, “Astronomical Dating Applied to a Type of Astrological Illustration,” (1956). He received his Ph.D. from Brown in 1960; then he wrote with Owen Gingerich, *Solar and Planetary Longitudes for Years -2500 to +2000 by 10 Day Intervals*, (1963).
863. **ORESME, Nicole; Edward GRANT.** *Nicole Oresme and the Kinematics of Circular Motion. Tractatus de commensurabilitate vel incommensurabilitate motuum celi; edited with an introduction, English translation, and commentary by Edward Grant*. Madison, Milwaukee & London: The University of Wisconsin Press, 1971. Series: *University of Wisconsin Publications in Medieval Science*. 8vo. Cloth, dust-jacket; jacket with some edge tears. INSCRIBED BY THE AUTHOR EDWARD GRANT to David C. Lindberg (“With warm friendship”). \$ 45

“Edition and translation of a text in which Oresme attempts to undermine predictive astrology by showing that the motions of the heavens are probably incommensurable. His argument is based ultimately on Bradwardine’s theory of ratios and motions and on his own extension of that theory. Extensive introductory analysis.” - Joseph Dauben, *The History of Mathematics from Antiquity to the Present, A Selective Bibliography*, 1985, no. 509. BL2956

864. [**Ornithology**] **Evelyn THAYER** & **Virginia KEYES** [comps.]. *Catalogue of a Collection of Books on Ornithology in the Library of John E. Thayer*. Boston: Privately Printed, 1913. First printing. 8vo. 186, addenda [1] pp. Early half dark blue morocco with marbled paper sides, gilt-stamped spine title with raised bands, t.e.g.; outer front spine hinge badly gnawed (still tightly bound). Good. Z1527 \$ 75

865. **OSBORN, Henry Fairfield** (1857-1935) & **Florence MILLIGAN** [ed.]. *Fifty-Two Years of Research, Observation and Publication, 1877-1929: A Life Adventure in Breadth and Depth. With a Complete Bibliography, Chronologic and Classified by Subject, 1877-1929*. New York: Charles Scribner’s Sons, 1930. 8vo. xii, 160 pp. Frontis. port. of Osborn, plates index. Burgundy cloth, gilt-stamped cover and spine titles, dust-jacket; jacket worn and stained with some tape repair. Very good. Z1731

\$ 300

Dr. George R. Minot’s copy, with the Author’s presentation inscription: “To Dr. George R. Minot; In memory of Charles Sedgwick Minot & Dr. George R. Minot with the best wishes of Henry Fairfield Osborn, December 18th 1930, Congratulations on the well-deserved award.” Minot was awarded the 1934 Nobel Prize in Physiology and Medicine, which he shared with William P. Murphy and George H. Whipple. The reference to the “award” in the inscription was not to the Noble Prize which came to Minot in 1934. Also in the inscription, the use of the phrase “In memory of,” certainly applied to Charles Sedgwick Minot who died in 1914, but not to George since he died in 1955. Osborn himself died in 1935. Two earlier editions of the bibliography had been published, the first for the period 1877-1910 and the second for the period 1911-1918. Both were compiled by Harriet Ernestine Ripley and continued thereafter by Janette May Lucas. This bibliography is identified in the text as the third edition, but it is the first edition of the complete bibliography. A special copy in every respect.

866. [**OUGHTRIED, William** (1575-1660)] **Florian CAJORI** (1859-1930). *William Oughtred: A Great Seventeenth-Century Teacher of Mathematics*. Chicago and London: Open Court Publishing Company, 1916. **FIRST EDITION**. 8vo. vi, 100 pp. Index. Gilt-stamped blue cloth, dust-jacket. Fine. Z1732 \$ 35

867. [**OWEN, Richard** (1804-1892)] **Richard OWEN** [Owen’s grandson]. *The Life of Richard Owen. With the Scientific Portions Revised by C. Davies Sherborn. Also an Essay on Owen’s Position in Anatomical Science by the Right Hon. T.H. Huxley, F.R.S. Portraits and Illustrations. In Two Volumes*. London: John Murray, 1894. 2 vols. 8vo. 15, (16), 409, ads. 2; 7, (8), 393, ads. 2 pp. Frontis. (both vols.), plates, illustrations, index. Dark green cloth, gilt-ruled covers and spine titles; extremities very rubbed, inner hinges cracked. Former library copy with the usual markings and defects (including large library sticker on front cover of both vols.). Fair. **RARE**. Z1529

\$ 300

FIRST EDITION. This set has seen some serious usage over the years, but is still

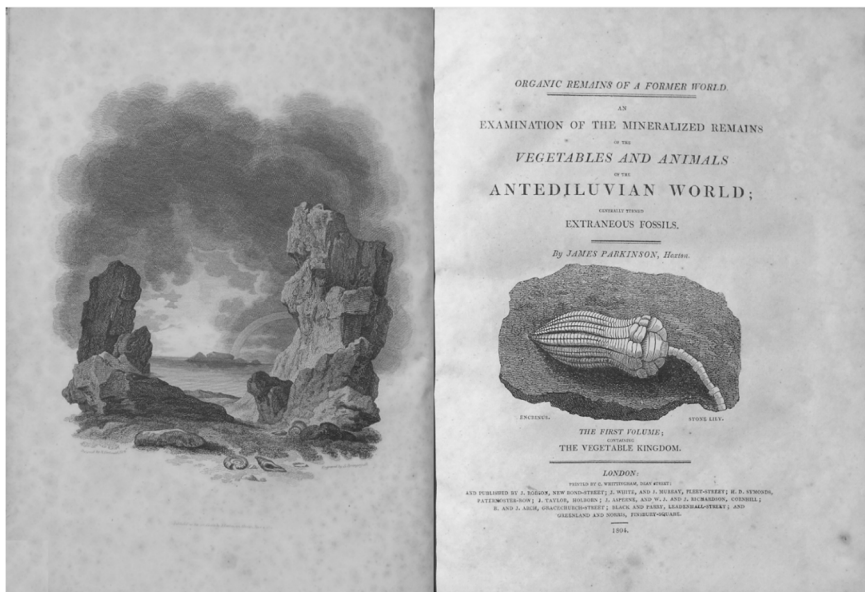
in usable condition. Bibliography gives minimal but very useful collations.

868. **Oxford University Press.** *Oxford University Press and Clarendon Press General Catalogue 1927.* New York: Oxford University Press, American Branch, (1927). 8vo. ii, 982 pp. Illustrations, index. Printed wrappers; covers stained, spine rumpled, front top spine corner torn. Fair. Scarce. Z1530 \$ 15
869. **PALEY, Raymond E.A.C.; Norbert WIENER.** *Fourier Transforms in the Complex Domain.* New York: American Mathematical Society, 1934. Series: American Mathematical Society Colloquium pubs., vol. XIX. 8vo. viii, 184, [1] pp. Frontis. Port., index. Navy blind and gilt-stamped cloth; a bit rubbed. Ownership signature in pencil. Very good. [HLL] \$ 35
870. **PALISA, Johann (1848-1925)] J. RHEDEN.** *Johann Palisa: Eine Kurze Lebensschilderung.* Vienna: Carl Ueberreuter, 1925. 8vo. 24 pp. Frontis. port. of Palisa with facsimile autograph and tissue guard. Printed wrappers. Fine. Z1957\$ 12
871. **PANNEKOEK, A.** *A History of Astronomy.* New York: Interscience, 1961. 8vo. 521 pp. 24 illus., 42 figs., index. Cloth, dust-jacket; jacket extremities shell-worn, book is fine, minor marginalia in pencil (by L. Pearce Williams). Very good. \$ 10
872. **[PASCAL, Blaise (1623-1662)] Jan MIEL.** *Pascal and Theology.* Baltimore & London: Johns Hopkins Press, (1969). 8vo. xv, 216 pp. Cloth, dust-jacket. Very good +. Ink ownership signature of David C. Lindberg. ISBN: 0801811015 / 0-8018-1101-5 \$ 10
873. **PARSONS, William, 3rd Earl of Rosse (1800-1867).** *The Scientific Papers of William Parsons, Third Earl of Rosse, 1800-1867.* (London): Collected and Republished by the Hon. Sir Charles Parsons, 1926. 4to. (v), blank [1], 221 pp. Plates, charts; some minor foxing. Rebound professionally in handsome black cloth, gilt-stamped spine title. Near fine. Z1534 \$ 625

A compilation of all of Rosse's (William Parsons) published work. The Earl of Rosse pioneered observation of faint detail in nebulae including the spiral structure of galaxies, with his self-constructed telescope at Birr Castle in Ireland. Charles Parsons, his descendant, published these papers privately, and is better known as the inventor of the steam turbine - he built the engines for the Titanic based on this design.

874. **PASNAU, Robert.** *Theories of Cognition in the Later Middle Ages.* Cambridge: Cambridge University Press, (1997). 8vo. xi, 348 pp. Index. Cloth, dust-jacket. Ink ownership signature of David C. Lindberg. Fine. BL2959 \$ 110

"This book is a major contribution to the history of philosophy in the later medieval period (1250-1350). It focuses on cognitive theory, a subject of intense investigation during these years. In fact many of the issues that dominate philosophy of mind and epistemology today - intentionality, mental representation, skepticism, realism - were hotly debated in the later medieval period. The book offers a careful analysis of these debates, primarily through the work of Thomas Aquinas, John Olivi, and William Ockham. Each of these figures attempts to reconceptualize cognition along direct realist lines, criticizing in the process the standard Aristotelian account."



The Haskell Norman Copy

875. **PARKINSON, James** (1755-1824). *Organic Remains of a Former World: An Examination of the Mineralized Remains of the Vegetables and Animals of the Antediluvian World; Generally Termed Extraneous Fossils*. London: Printed by C. Whittingham and published by J. Robson, J. White and J. Murray, H.D. Symonds, et al., 1804-1811. 3 volumes. 4to. xii, 472, [6]; xiv, [2], 286, [28]; xv, [1], 264, *257-268, 265-477, [3] pp. 54 engraved plates (including 3 frontis., many hand-colored), 2 errata leaves, indices, 2 advertisement leaves (Vols. I & II), 3 title-page vignettes; Vol. I preliminaries browned, occasional light foxing and offsetting throughout all volumes. Contemporary full tan calf, gilt double-ruled covers, 5 raised bands, gilt-stamped spines and brown leather spine labels; Vol. I re-backed with original spine laid down, Vol. III front cover scratched, extremities rubbed all volumes. Bookplate of Haskell Norman. Bookplate and signature of J. Walton, 1952. Near fine.

\$ 5,000

FIRST EDITION of this beautifully illustrated work on ancient fossils, pre-dating Darwin's *Origin of Species* by half a century.

"One work only, but a very important one, stands out conspicuously in the published annals of the first decade of the nineteenth century: James Parkinson's *Organic Remains of a Former World*, in three volumes, 1808 [sic]-1811. It is written in the form of letters, and this method of communication to an imaginary correspondent, and thus to the world at large, is surprisingly effective. During the progress of its publication a transformation had been taking place in the human view of the geological scene. This was due chiefly to the dissemination, orally and by correspondence, of the discoveries of William Smith, but also to independent researches, particularly those of John Farey. Parkinson's three volumes reflect this progress. General ideas are grappled with but not always satisfactorily resolved in the first volume, whereas in the third volume correct views, with special reference to

fossils and their occurrence, are clearly expounded with full acknowledgement to Smith and Farey. The work is also remarkable for Parkinson's grasp of the previous and contemporary literature of geology and paleontology and his scholarly discussion of it. Many well-known fossil species are excellently described (with tinted drawings) for the first time, but unfortunately he did not give them binomial (Linnaean) names, so that he does not appear later as the 'author' of these species. Altogether the work has not received the attention its importance deserves" (Challinor, pp. 84-85).

In his work, Parkinson offers "a synthesis of Cuvier's catastrophic ideas and Genesis" (Young & Stearley, p. 94). Georges Cuvier (1769-1832), a French naturalist and zoologist, proposed the theory that the Earth periodically experiences brief but violent events, namely natural disasters, which have a profound effect on biological life. "Plants and animals living in those parts of the world where such events occurred were often killed off.... Cuvier's explanation relied solely on scientific evidence rather than biblical interpretation" (*Wikipedia*). However, Parkinson blended the theory of catastrophism with the biblical account of the flood in order to draw his own conclusions as to the nature and origin of his "extraneous fossils." To his credit, "in his text, Parkinson expresses a profound skepticism about all theories in geology, the 'diluvial' theory presumably included. Certainly this conviction that theorizing should be replaced by rigorous fact-collecting characterized the group of enthusiasts, Parkinson among them, who soon afterward founded the Geological Society of London (1807)" (Rudwick, p. 18).

"While devoted to fossils as a whole, this work is of considerable interest to the lapidary and gemologist because the author includes much information on silicified woods, amber, and jet, with remarks on their uses in the lapidary arts!" (Sinkankas, p. 789).

"The importance of this work was early recognized by Gideon Mantell in his *Pictorial Atlas of Fossil Remains*, 1850, p. xii who remarks 'it was the first attempt to give a familiar and scientific account of the fossil relics of animals and plants, accompanied by figures of the specimens described'" (Sinkankas, p. 789).

Parkinson "was a London physician and is best known for his masterly *Essay on the Shaking Palsy* (1817), which first clearly described the disease entity that now bears his name. In his spare time, however, Parkinson was a keen fossil collector. Early in the new century, he set out to fill an obvious gap by writing a substantial book on fossils in English, which would appeal to the growing number of collectors in Britain. His *Organic Remains of a Former World*, published in three quarto volumes over an eight-year period (1804-11), was richly illustrated by hand-colored copper engravings of fossils of many kinds. However, the book was written in an already old-fashioned style as a series of diffuse 'letters' to another collector, and the considerable impact of the work derived more from its fine illustrations than from its text" (Rudwick, p. 18).

Samuel Springsguth (1769-1844) drew and engraved all of the plates (including Vol. III's frontispiece) except the frontispiece for Vol. I, which was drawn by Richard Corbould (1757-1831), and the frontispiece for Vol. II, which was drawn by "Mrs. Sheffield." Interestingly, even though the frontispiece for Vol. I, depicting Noah's Ark and the flood, bears a close resemblance to a frontispiece found in Johann Jakob Scheuchzer's (1672-1733) *Herbarium of the Deluge* (1709) published a

century earlier, there are some marked differences suggesting an emphasis on the scientific, rather than religious, implications of the event. “The scene that the London landscape painter Richard Corbould...designed for Parkinson does, however, modify Scheuchzer’s design in a subtle but significant way. The Ark is now so small and distant that it can easily be missed at a first glance; conversely, the shells—two of them unmistakably ammonites known only from the older strata—are more prominent” (Rudwick, p. 18).

✧ Challinor, John, *The History of British Geology: A Bibliographic Study*, Newton Abbot, UK: David & Charles, 1971; *DNB*, XV, pp. 314-315; *DSB*, X, pp. 321-323; Haskell Norman Library 1641 [Christies’ *Haskell F. Norman Library sale catalog*, Part III, item 1234 lists 64 plates, given in error]; Nissen ZBI, 3091; Rudwick, Martin J.S., *Scenes from Deep Time: Early Pictorial Representations of the Prehistoric World*, Chicago: University of Chicago Press, 1992, Sinkankas, John, *Gemology: An Annotated Bibliography*, Metuchen, NJ: Scarecrow Press, 1993, p. 789; Young, Davis A. & Ralph Stearley, *The Bible, Rocks and Time: Geological Evidence for the Age of the Earth*, Downers Grove, IL: InterVarsity Press, 2008; Karl Alfred von Zittel, *Paleontology to the End of the Nineteenth Century*, 1914, p.127.

876. **PARKES, M.B.** *English Cursive Book Hands 1250-1500*. Berkeley & Los Angeles: University of California Press, (1980). Reprint. Oxford in Series: *Oxford Palaeographical Handbooks*. 8vo. xxxii, 26 pp. Index. Cloth, dust-jacket; jacket extremities worn. Ink ownership signature of David C. Lindberg. Very good. ISBN: 0520040805 / 0-520-04080-5 \$ 34

877. **PASTEUR, Louis** (1822-1895). *Études sur le Vin. Ses maladies causes qui les provoquent procédés nouveaux pour le conserver et pour le vieillir*. Paris: l’Imprimerie Impériale, 1866. 8vo. viii, 264 pp. 42 figs. (32 in color). Original half morocco over moiré black cloth, gilt-stamped spine title. Bookplate of Francis Reynolds Dickinson (1880-1974) and Alice May Dickinson (née Stirling), ownership marks on half-title and title-page. Fine.

§ 950

FIRST EDITION. In this book Pasteur established the role of atmospheric oxygen in vinification and linked each alternation of “disease” of wine with a specific microorganism. He demonstrated that healthy wine could be preserved by heating it in closed vessels at temperatures between 50 and 60 degrees Celsius, a procedure anticipated by Nicolas Appert (1750-1841) in his work *L’art de conserver ...* (Paris, 1810) at the turn of the century, but Pasteur was the first to give a scientific foundation to Appert’s empirical and poorly tested technique. The work was undertaken at the request of the emperor in order to salvage the ailing national wine industry. Pasteur’s research on fermentation and putrefaction led him to discover bacteria, from which he developed the germ-theory of disease. Modern bacteriology and immunology are founded on Pasteur’s research. The various bacteria (and other microorganisms) discovered by Pasteur, in wine samples kept under varying circumstances, are vividly displayed in color plates, drawn from his microscopic examinations. In one plate, Pasteur shows the cross section of a sterilizing chamber, for preparing wine bottles prior to filling.

“French winemakers, troubled by the souring of wine, especially in exporting, presented their problem to Pasteur. He found that wine diseases could be controlled by heating the liquid for a definite time at a certain temperature. These

findings were published in *Etudes*. [Milestones of Science]. “Cette première édition est rare”. [Oberle].

PROVENANCE: Francis Reynolds Dickinson (1880-1974) was born to Eliza A. Reynolds & William Dickinson, graduated from Harvard (B.A. 1903). He became a successful lawyer in Chicago.

☼ Bitting 358; BM (*Nat. Hist.*) Vol. IV, p. 1528 (wanting); Bulloch, *History of Bacteriology*, p. 61; Cushing P141; Dibner, *Heralds of science*, 198; *DSB* Vol. X, pp. 366-67; Duveen 460; Garrison & Morton 2479; Gascoigne 15200.2; Hirsch Vol. IV, p. 504; Honeyman 2423; Norman 1655; Oberle 985; Osler 1547; *Printing and the mind of man* 336d (note); Singer, *History of medicine*, p. 438; Sparrow 160; Suplee, *Milestones of Science*, p. 160; Waller 10967.

Printing and the Mind of Man
Pasteur on Spontaneous Generation

878. **PASTEUR, Louis** (1822-1895). *Mémoire sur les corpuscules organisés qui existent dans l'atmosphère; examïn de la doctrine des générations spontanées*. Contained in: *Annales de Chimie et de Physique*, Third series, Vol. LXIV, pp. 5-110, 1862. Paris: Masson & Fils, 1862. 8vo. (216 x 125 mm) 512 pp. 5 plates (4 folding, 1 color); partial damage to image on plate 5. Original half calf over green cloth, gilt-stamped spine title, raised bands; extremities rubbed. Bookplate of Andras Gedeon. Very good.

§ 3,600

FIRST EDITION of the Pasteur paper, alternative issue (or second issue – see below). With: KIRCHHOFF, Gustav Robert (1824-1887) & Robert Wilhelm BUNSEN (1811-1899). *Analyse chimique fondée sur les observations du spectre*. Contained in: *ibid.*, pp. 257-311.

This volume contains both Pasteur's landmark experiments in fermentation, including the swan-necked culture vessels (illustrated on the engraved plate) which remained sterile despite being open to the atmosphere, and spectral analysis of salts by their color bands by Kirchhoff and Bunsen. “When [Pasteur's] conclusions were called in question by Pouchet, who claimed to have repeated his experiments with totally dissimilar results, Pasteur reported in 1861, in Notes on the Organized Corpuscles existing in the Atmosphere, further experiments which demonstrated beyond dispute that fermentation is caused by the action of minute living organisms and that if these are excluded or killed fermentation does not occur. This enabled him to explain to brewers and vintners the cause and prevention of sourness in their products.” [PMM].

“The longest and most important of Pasteur's papers on spontaneous generation, describing the series of classic experiments with bent-necked and sealed flasks by which he proved conclusively that fermentation and putrefaction are not the products of spontaneous generation, but result from contamination by airborne micro-organisms. Pasteur's experiments also mark the beginning of microbiology since, by showing how to sterilize a liquid and keep it sterile, he opened up the possibility of culturing and studying a single micro-organism in the absence of any others. Pasteur's paper was first printed in Vol. 16 of the *Annales des sciences naturelles, Zoologie*, 4th series (1861), but no offprint was made from this journal printing. [An] offprint was made from the *Annales de chimie et de physique*, 3rd

series (1862), in which Pasteur's paper was reprinted a few months after its first appearance." [Norman]. "It was an unexplained fact that the dark bands in the light of the sun, as first reported by Fraunhofer, coincided with the bright lines emitted by sodium vapour in a 'Bunsen burner', Kirchoff describes here his and Bunsen's remarkable discovery that these dark bands get even darker if the sunlight is allowed to pass through the sodium vapour. This observation leads them to the conclusion that emission and absorption spectra uniquely identify an element such as sodium." [Gedeon].

References: *DSB* Vol. X, pp. 367-370; Garrison & Morton 2475; Gedeon, *Science and technology in medicine*, #50 & 49.3 (pp. 264-65, 259, 261); Norman 1654; *Printing and the Mind of Man* 336c. S9510

879. **PAULI, Wolfgang** (1900-1958). *Exclusion Principle and Quantum Mechanics. Lecture given in Stockholm after the award of the Nobel Prize of Physics 1945.* Neuchatel: editions du Griffon, 1947. Small 8vo. 51 pp. Cover printed in red & black. Original printed wrappers; chipped, extremities worn. Good. \$ 15
 "In 1945, after being nominated by Albert Einstein, he received the Nobel Prize in Physics for his 'decisive contribution through his discovery of a new law of Nature, the exclusion principle or Pauli principle,' involving spin theory, underpinning the structure of matter and the whole of chemistry." - Wikipedia.
880. **[PEABODY, George** (1795-1869)] **Severn Teackle WALLIS** (1816-1894). *Discourse on the Life and Character of George Peabody, Delivered in the Hall of the Peabody Institute, Baltimore, February 18, 1870, and Repeated, February 25th, before the Senate and House of Delegates of Maryland, on their Invitation.* Annapolis: Wm. Thompson, 1870. Small 4to. 60 pp. Printed wrappers; extremities chipped, spine missing, covers detached. Gift presentation inscription inked on title (from "J.R.H."). Good. Z1952 25
881. **PEARL, Richard Maxwell** (1913-1980). *Guide to Geological Literature.* New York, Toronto, London: McGraw-Hill, 1951. 8vo. xi, 239 pp. Index. Burgundy cloth, gilt-stamped black spine label. Bookplates. **FIRST EDITION.** Printer's error on pp. 118-119 and 122-123 (text still legible). Very good +. Z1537 \$ 15
882. **[PEARSON, Karl] G. M. MORANT** [comp.] & **B. L. Welch.** *A Bibliography of the Statistical and Other Writings of Karl Pearson.* Cambridge: Biometrika Office, University College, Cambridge University, 1939. 8vo. viii, 119 pp. Frontispiece, indices. Original gilt-stamped rust cloth. Fine. \$ 48
883. **PECHAM, John; David C. LINDBERG.** *John Pecham and the Science of Optics; Perspectiva Communis. Edited with an introduction, English translation, and critical notes by David C. Lindberg.* Madison: University of Wisconsin Press, 1970. Series: *University of Wisconsin Publications in Medieval Science*, no. 14. 8vo. xvii, 300 pp. Cloth, dust-jacket; jacket worn. Ex-library copy with rubber-stamps. Good. \$ 22
 First English edition of "the most widely read and cited of all medieval works on optics." Pecham lectured at Oxford and Paris, becoming the Archbishop of Canterbury (1279-1292), and was active in assimilating ancient Greek and Islamic science into European society.

884. [PEARSON, Karl (1857-1936)] **Raymond PEARL** (1879-1940). "Karl Pearson, 1857-1936." Offprint from: *Journal of the American Statistical Association*, December, 1936. Vol. 31, pp. 653-664. (230 x 155 mm). 12 pp. Printed wrappers. Fine. Z1959 \$ 15
885. [PECHAM] **HUGHES, Barnabas** (ed.). "*De Numeris Misticis*" by *John Pechani, a Critical Edition*. Offprint from *Archivum Franciscanum Historicum*, 78, 1985. Grottaferrata, Roma: Colle S. Antonio, 1985. 8vo. (3)-28, 333-383 pp. Corrigenda mounted on final printed page. Printed wrappers. As new. [BH] \$ 6
886. [PEGIS, Anton Charles] **Reginald O'DONNELL** (editor). *Essays in Honour of Anton Charles Pegis*. Toronto: Pontifical Institute of Mediaeval Studies, 1974. 8vo. 395 pp. Red cloth. Ink ownership signature of David C. Lindberg. Very good. \$ 12
- Anton Charles Pegis (1905-1978), professor of the history of philosophy, was an authority on Thomas Aquinas and Christian theology. See: Desmond FitzGerald, "Anton Pegis's Thomistic Theory of Man as an Incarnate Spirit" p. 92, Peter A. Pagan Aguiar, Terese Auer, *The Human Person and a Culture of Freedom*, 2009. For his obituary, see: Armand Maurer, *Mediaeval Studies*, vol. XLI (1979), p. xvi, "Anton Charles Pegis (1903-1978)," pp. xvii-xix. BL2960

Charles Sanders Peirce's Copy

887. **PEIRCE, Benjamin** (1809-1880). *Physical and Celestial Mechanics. ...Developed in Four Systems of Analytic Mechanics, Celestial Mechanics, Potential Physics, and Analytic Morphology. A System of Analytical Mechanics*. Boston: Little, Brown, 1855. 4to. xxxix, [1 blank], 496 pp. Subscriber's list, folding plate, index. Original blind-stamped pebbled brown cloth, spine replaced in quarter similarly grained black cloth; extremities lightly rubbed, front corners showing. Presentation bookplate from Charles Sanders Peirce (institutional holograph inscription) to Harvard College, with matching rubber stamps (withdrawn stamp, as duplicate). RARE. Very good. \$ 1,600
- FIRST EDITION of Peirce's renowned *System of Analytical Mechanics*, "the first American textbook in this field, and one of the most original of Peirce's books" (Struik, pp. 414-415).

The first title-page bearing the full title of *Physical and Celestial Mechanics* is followed by a second with the title *A System of Analytical Mechanics*. Although the subtitle of the first suggests four systems in total, *Analytical Mechanics* was the only part Peirce actually wrote. "At the time of the publication of his '*Systems of Analytical Mechanics*,' Professor Peirce announced that the volume would be followed by three others, entitled respectively: '*Celestial Mechanics*,' '*Potential Physics*,' and '*Analytical Morphology*.' These three volumes were never published" (Finkel, p. 464).

"In 1842, Peirce was named Perkins Professor of Astronomy and Mathematics, a newly endowed professorship. By that time, qualified Harvard students devoted two years of study to Peirce's book *Curves and Functions*, for which he had prepared notes. Ambitious seniors might progress to Poisson's *Mécanique Analytique*, which he would replace in 1855 with his own textbook, *A System of Analytical Mechanics*.

This was fittingly dedicated to ‘My master in science, NATHANIEL BOWDITCH, the father of American Geometry’” (Birkhoff, p. 6).

“Born in 1809, Benjamin Peirce was Harvard’s Perkins Professor of Astronomy and Mathematics for nearly forty years, and America’s leading mathematician. He was largely responsible for introducing mathematics as a subject for research in American institutions, and he is known especially for his contributions to analytic mechanics and linear associative algebra. He helped organize the Smithsonian Institution, and from 1867 to 1874 served as superintendent of the United States Coast Survey. Benjamin Peirce was widely regarded as the most powerful mind so far produced in the United States” (Peirce, pp. xix-xx).

PROVENANCE: Charles Sanders Peirce (1839-1914) was the second son of Benjamin Peirce and a widely celebrated scholar in his own right. Peirce was a “philosopher, logician, mathematician, and scientist, sometimes known as ‘the father of pragmatism.’ He was educated as a chemist and employed as a scientist for 30 years. Today he is appreciated largely for his contributions to logic, mathematics, philosophy, scientific methodology, and semiotics, and for his founding of pragmatism” (*Wikipedia*).

☼ Birkhoff, Garrett, “Mathematics at Harvard, 1836-1944,” *A Century of Mathematics in America*, Pt. II, Providence, RI: American Mathematical Society, 1989, 3-58 pp.; Finkel, Benjamin Franklin, *A Mathematical Solution Book*, Springfield, MO: Kibler, 1888; Peirce, Charles Sanders, *Writings of Charles S. Peirce: 1879-1884*, Bloomington, IN: Indiana University Press, 1989; Roberts, Verne L., *Catalogue of Books from the Bibliotheca Mechanica*, London: Bloomsbury Book Auctions, 2002, p. 248; Struik, Dirk Jan, *Yankee Science in the Making*, Mineola, NY: Dover, 1991; Trübner, Nicolas, *Trübner’s Bibliographical Guide to American Literature*, London: Trübner, 1859, p. 513.

888. **[PEIRCE, Charles Sanders (1839-1914)] Joseph BRENT.** *Charles Sanders Peirce: A Life.* Bloomington and Indianapolis: Indiana University Press, (1993). FIRST EDITION. 8vo. xvi, 388 pp. Frontis. port. of Peirce, illustrations, index. Red cloth, gilt-stamped black spine label, dust-jacket; very small scar to front jacket and cloth cover. Very good. ISBN: 0253312671 Z1734 § 12

889. **[PENGETLY, William (1812-1894)] Hester PENGETLY nee JULIAN** [ed.]. *A Memoir of William Pengelly, of Torquay, F.R.S., Geologist, with a Selection from His Correspondence. With a Summary of His Scientific Work by the Rev. Professor Bonney.* London: John Murray, 1897. 8vo. x, (xi), 341 pp. Gravure frontis. port. of Pengelly with facsimile autograph and tissue guard, 10 plates, index. Maroon cloth, gilt-stamped spine title; cloth torn around spine ends, extremities a bit rubbed with small water-stain to front cover, inner hinges cracked. Good +. Z1540 § 125

FIRST EDITION. Signed presentation from the editor (Pengelly’s daughter): “From the Writer, Hester Julian.” Pengelly, as his correspondence reveals, was an active correspondent with many of the great and minor scientific people of his day, including a number of astronomers. Hester Pengelly married Henry Forbes Julian, who perished on the Titanic.

890. **PERERO, Mariano.** *Historia e Historias de Matemáticas.* Mexico City: Grupo Editorial Iberoamérica, 1994. 8vo. [viii], 193 pp. Illus. figs., index. Printed wrappers. Ink inscription ftep. Very good +. Rare. ISBN: 970625522 [BH] \$ 15
891. **[PETRUS DE DACIA** (ca. 1250-ca. 1310)] **Ernst ZINNER** (1886-1970). "Petrus de Dacia, ein Mittelalterlicher Dänischer Astronom." Offprint from: *Archeion*, Vol. XVIII (1936) – Fasc. 4, pp. 318-329. Rome: Casa Editrice Leonardo da Vinci, 1936. (245 x 175 mm). 12 pp. Printed wrappers. Fine. Z1960 \$ 12
892. **[PLATO] Jon MOLINE.** *Plato's Theory of Understanding.* Madison: University of Wisconsin Press, (1981). 8vo. xv, 255 pp. Index. Cloth, dust-jacket. Ink ownership signature of David C. Lindberg. Very good +. \$ 50
See review of this book: R. F. Stalley, *The Classical Review*, New Series, Vol. 33, No. 2 (1983), pp. 222. ISBN: 0299086607 / 0-299-08660-7
893. **PFEFFER, Wilhelm** (1845-1920). *The Physiology of Plants: A Treatise upon the Metabolism and Sources of Energy in Plants. Translated and edited by Alfred J. Ewart.* Oxford: Clarendon Press, 1900-1906. 3 vols. 8vo. xii, 632; viii, 296; viii, 451, [1] pp. Indices, 70; 31; 70 figures; Vol. II free end-papers and pastedowns foxed. Original quarter gilt-stamped dark brown morocco over dark green, Vol. II in all gilt-stamped dark green cloth; corners bumped, extremities lightly rubbed, Vol. I spine faded. Ownership signature of J.R. Furr. Very good. \$ 180
Second, fully revised edition of Pfeffer's ground-breaking work on plant physiology.

"It was Julius Sachs, the acknowledged founder of plant physiology, who showed Pfeffer the path to physiology. At the instigation of Sachs, Pfeffer undertook his first, purely physiological investigation, which dealt with the effect of different colours of light on the assimilation of carbon dioxide (1871c). In the end, Pfeffer went further than Sachs. Sachs treated plant physiology as an area of botany which had been neglected up to this point. He introduced the use of hydroponics, and he dealt with the physiology of germination, of roots, of stimulation, and with photosynthesis. He thus gave a significant impetus to the further research of these processes. These phenomena were also of interest to Pfeffer, but to him, they were primarily keys to the solution of general problems of biology. It may be said of Sachs and of many other outstanding biologists that they investigated separate subject areas with success. At the risk of oversimplification, it may be said of Pfeffer that he investigated diverse areas with the objective of finding as many starting points as possible to penetrate the molecular foundations of life's processes" (Bünning, pp. 18-19).

PROVENANCE: Joseph R. Furr was an American botanist who won the American Pomological Society's Wilder Medal in 1970 for "breeding and water relations of citrus" (American Pomological Society). He was also superintendent of the U.S. Dept. of Agriculture's experimental Date and Citrus Station in Indio, CA. "In 1946 Dr. Joseph R. Furr was transferred from Florida to Indio as station superintendent. He served until his retirement in 1970. He had worked on apples in Maryland and citrus in California and Florida. With increased interest in citrus production resulting from the delivery of Colorado River water to the Coachella Valley in 1948-50 much of the station's work was shifted to citrus problems. In 1948 breeding programs with both dates and citrus were begun in cooperation with the

Southwestern Irrigation Field Station in Brawley. Several years later investigations of diseases and salt tolerance of citrus and dates were undertaken and there were continuing studies of nitrogen fertilization, water requirements, pollen physiology and the influence of crop load on alternate bearing. The work on breeding and testing citrus varieties and rootstocks was done in cooperation with the USDA laboratories at Orlando, Florida and Weslaco, Texas and the University of California, Riverside” (Coachella Valley Historical Society).

☼ American Pomological Society, “The Wilder Medal,” available on-line; Bünning, Erwin, *Ahead of His Time, Wilhelm Pfeffer: Early Advances in Plant Biology*, Montreal & Kingston: McGill-Queen’s University Press, 1989; Coachella Valley Historical Society, “The Story of Dates,” 2007, available on-line.

894. **PHILLIPS, George M.** *Two Millennia of Mathematics; From Archimedes to Gauss*. New York: Springer, 2000. Series: *CMS Books in Mathematics*. 8vo. xii, 223 pp. Figs., index. Pictorial boards. Fine. ISBN: 0387950222 / 0-387-95022-2 [BH]

\$ 70

“This book is a collection of inter-connected topics in areas of mathematics which particularly interest the author, ranging over the two millennia from the work of Archimedes, who died in the year 212 BC, to the “Werke” of Gauss, who was born in 1777. The book is intended for those who love mathematics, including undergraduate students of mathematics, more experienced students and the vast unseen host of amateur mathematicians. It will also be a useful source of material for those who teach mathematics. The author, George Phillips, is a Scot who has lectured and researched in mathematics, mainly at the University of St Andrews, Scotland, but also in many other universities in the UK, the USA, Canada, Brazil, Portugal, Italy, the Czech Republic, Greece, Bulgaria, Turkey, Israel, Malaysia, Singapore, China, and Australia.”

895. [**Philosophical Magazine, 1827-1832**]. *General Index to the Philosophical Magazine, or Annals of Chemistry, Mathematics, Astronomy, Natural History, and General Science. Volumes I. to XI. Being the United Series of the Philosophical Magazine and Annals of Philosophy. From January, 1827 to June, 1832*. London: Richard Taylor, 1835. Small 4to. 50, ad. [1] pp. Half brown leather with corners and marbled paper sides; extremities worn, front cover detached, spine mostly missing (pages still bound), endpapers foxed and water-stained. Good. Z1543 \$ 25

896. **The Physical Society.** *Reports on Progress in Physics. Volume XIX (1956)*. London: The Physical Society, 1956. 8vo. [iv], 367 pp. Illus., figs. Green blind and gilt-stamped cloth. Ex-library rubber-stamp on ffep (no other markings). Very good.

\$ 10

Features: G.H.A. Cole, The Kinetic Theory of Monatomic Liquids at Ordinary Temperatures; J.P. Blewett, The Photons Pynchrotron; L.H. Ahrens, Radioactive Methods for Determining Geological Age; H.Y. Fan, Infra-Red Absorption in Semiconductors; O.K. Mawardi, Aero-thermoacoustics; J.A. Ratcliffe, Some Aspects of Diffraction Theory and their Application to the Inonosphere; J.H. Tait, Some topics in neutron diffusion theory; C.G. Wynne, New Lens Systems; R.O. Davies, The Macroscopic Theory of Irreversibility.

897. **PICARD, Emile** (1856-1941). *1877-1927 Selecta; Cinquantenaire Scientifique*. Paris: Gauthier-Villars et Cie, 1928. 4to. [iv], 304 pp. Frontis. portrait. Original

printed wrappers; prominently torn covers, mended sympathetically with kozo (esp. spine). Good. [HL] \$ 20

898. **PICART, M.L.** *Annales de L'Observatoire de Bordeaux. Tome XIII.* Paris & Bordeaux: Gauthier-Villars & Feret et Fils, 1907. 4to. 31; 31 pp. Frontis. port. of astronomer Georges Rayet with facsimile signature. Printed wrappers; lacks rear cover, some foxing. Pages uncut. Very good. Z1953 \$ 35
899. [**PICKERING, Edward Charles** (1846-1919)] **Solon I. BAILEY.** "Edward Charles Pickering, 1846-1919." Offprint from: *Astrophysical Journal*, 1919. Vol. L, No. 4, November 1919. (240 x 175 mm). 233-244 pp. 2 port. plates of Pickering. Printed wrappers. Ownership signature of A. S. Young. Fine. Z1961 \$ 10
900. [**PICKERING, John**] **Daniel Appleton WHITE.** *Eulogy on John Pickering, LL.D., President of the American Academy of Arts and Sciences.* Cambridge: Metcalf, 1847. Small 4to. 106 pp. Original printed wrappers; bottom spine end chipped. Ownership signature of Henry W. Pickering. This is the original first printing. Very good. Z1963 \$ 45
901. **PICKOVER, Clifford A.** *The Math Book From Pythagoras to the 57th Dimension, 250 Milestones in the History of Mathematics.* New York: Sterling, (2009). Fifth printing. 8vo. 578 pp. illus. maps figs., index. Purple-brown cloth, dust-jacket; jacket price-clipped. As new. ISBN: 9781402757969 [BH] \$ 8
902. **PLANCK, Max** (1858-1947. *Einführung in die Theoretische Optik; Zum Gebrauch bei Vorträgen, sowie zum Selbstunterricht.* Leipzig: S. Hirzel, 1927. Series: Einführung in die Theoretische Physik, IV. 8vo. VI, 184 pp. Index. Original grey brown-stamped cloth; spine head heavily worn. Ink title-page ownership signature of Harold Levine, 1939. Good (internally very good). [HL] \$ 20
903. **PLANCK, Max** (1858-1947. *Einführung in die Theorie der Elektrizität und des Magnetismus; Zum Gebrauch bei Vorträgen, sowie zum Selbstunterricht.* Leipzig: S. Hirzel, 1922. 8vo. IV, 208 pp. 12 figs., index; paper browned. Grey cloth-backed printed boards. Ownership signature of Robert W. Lawson (1922). Good. [HL] \$ 20
Provenance: Lawson wrote about Einstein and relativity. He translated into English Einstein's, Relativity, the special and general theory, 1920. [HL]
904. **PLATO; B. JOWETT.** *The Dialogues of Plato. Translated into English With Analyses and Introduction.* Boston & New York: Jefferson Press, [no date]. Volumes 1+2 (of four). 8vo. x, 681; 607 pp. Cloth; inner hinges mended. Good. \$ 9
905. **POGGENDORFF, Johann Christian** (1796-1877), et al. [eds.]. *Biographisch-Literarisches Handwörterbuch zur Geschichte der Exacten Wissenschaften Enthaltend Nachweisungen über Lebensverhältnisse und Leistungen von Mathematikern, Astronomen, Physikern, Chemikern, Mineralogen, Geologen usw Aller Völker und Zeiten. Two Volume Set. [with:] J.C. Poggendorff's Biographisch-Literarisches Handwörterbuch zur Geschichte der Exacten Wissenschaften Enthaltend Nachweisungen über Lebensverhältnisse und Leistungen von Mathematikern, Astronomen, Physikern, Chemikern, Mineralogen, Geologen usw Aller Völker und Zeiten. Dritter Band (1858-1883). [with:] J.C. Poggendorff's Biographisch-Literarisches Handwörterbuch zur Geschichte der Exacten*

Wissenschaften Enthaltend Nachweisungen über Lebensverhältnisse und Leistungen von Mathematikern, Astronomen, Physikern, Chemikern, Mineralogen, Geologen usw Aller Völker und Zeiten. Vierter Band (Die Jahre 1883 bis zur Gegenwart Umfassend). (Mansfield Centre, CT): (Martino, n.d.). 6 vols. Facsimile reprints of the original 1863 first edition, the 1898 third edition, and the 1904 fourth edition. 8vo. viii, [cols.]: 1584; 1468; viii, 1496; xii, 1718, ads. [2] pp. Green cloth, gilt-stamped spine title. Fine. Z1545

\$ 300

A set of limited edition reprints. ISBN: 1888262850 / 157898C437 / 157898C453

906. **[POGGENDORFF, Johann Christian] Paul Franz Wilhelm WEINMEISTER** (1856-1927) [ed.]. *J.C. Poggendorff's Biographisch-Literarisches Handwörterbuch für Mathematik, Astronomie, Physik, Chemie und verwandte Wissenschaftsgebiete. Band V: 1904 bis 1922.* [Garding]: [Cicero Presse, 1997]. 2 volumes in 1. Facsimile reprint of the 1925-1926 fifth edition. Large 8vo. [i], 1424 pp. Blue cloth, gilt-stamped spine title. Near fine. ISBN: 3891200161 Z1546
\$ 235
Volume Five of Poggendorff's standard work on scientists and their work is important for the numerous scientific discoveries that took place within the period covered, 1904-1922. Einstein's and Planck's works are covered, as is the work of most of the early scientists working on atomic theory.
907. **[PÓLYA] ALEXANDERSON, Gerald L.** *The Random Walks of George Pólya.* Mathematical Association of America, 2000. Spectrum Series. 8vo. xii, 303 pp. Illus. Printed wrappers. As new. ISBN: 0883855283 / 0-88385-528-3 [BH] \$ 14
908. **[PÓLYA] TAYLOR, Harold & Loretta.** *George Pólya Master of Discovery 1887-1985.* Palo Alto, CA: Dale Seymour, (1993). 8vo. x, 166 pp. Illus. Printed wrappers. Fine. ISBN: 0866516115 / 0-86651-611-5 [BH] \$ 5
909. **Popular Science Monthly.** *Index to the Popular Science Monthly for the Twenty Volumes from 1872-1882, and of the Three Volumes of the Supplement; Embracing the Titles of the Articles in the Several Departments of the Magazine.* New York: D. Appleton, 1883. 8vo. iv, 169, ads. [2] pp. Green cloth, blind stamped cover title, gilt-stamped spine title; slightly rubbed. Former library copy with rubber stamps and embossed stamp on title, but a clean and tight copy, barely used. Very good +. Z1548 \$ 85
910. **POOVEY, Mary.** *A History of the Modern Fact; Problems of Knowledge in the Sciences of Wealth and Society.* Chicago & London: University of Chicago Press, (1998). 8vo. xxv, 419 pp. Frontis., figs., index. Printed wrappers. Ink ownership signature of David C. Lindberg. Fine. ISBN: 0226675262 / 0-226-67526-2 \$ 20
911. **POYNDRER, Michael.** *PI in the Sky; a Revelation of the Ancient Celtic Wisdom Tradition.* Cork, Ireland: Collins Press, (1997). 4to. xiii, 191 pp. Illus. (much in color), diagr. Printed wrappers. Fine. ISBN 10: 1898256330 / 1-898256-33-0 [BH] \$ 12
912. **PRESTON, Jean F.; Laetitia YEANDLE.** *English Handwriting 1400-1650; an introductory manual.* Birmingham: Medieval & Renaissance texts & studies, 1992. 4to. xiv, 98 pp. Illus. Printed wrappers. Fine. Ink ownership signature of David C. Lindberg. Fine. ISBN: 0866980865 \$ 85

913. **PRIESTLEY, Joseph** (1733-1804); **Henry Carrington BOLTON** (1843-1903) [ed.]. *Scientific Correspondence of Joseph Priestley. Ninety-Seven Letters Addressed to Josiah Wedgwood, Sir Joseph Banks, Capt. James Keir, James Watt, Dr. William Withering, Dr. Benjamin Rush, and Others. Together with an Appendix...* New York: Kraus Reprint, 1969. Facsimile reprint of the 1892 New York edition. 8vo. vii, 240 pp. Frontis. port. of Priestley, index. Dark beige buckram, gilt-stamped spine title. Fine copy. Z1550 \$ 50

914. **PRIESTLEY, Joseph** (1733-1804); **Robert E. SCHOFIELD** [ed.]. A Scientific Autobiography of Joseph Priestley (1733-1804). *Selected Scientific Correspondence*. Cambridge, MA and London: M.I.T. Press, (1966). **FIRST EDITION**. 8vo. xiv, 415 pp. Frontispiece portrait of Priestley, index. Burgundy cloth, gilt-stamped spine title, dust-jacket slightly soiled, worn and chipped. Very good. Z1551 \$ 16

915. [**PRIESTLEY, Joseph** (1733-1804)] **Edgar Fahs SMITH** (1854-1928). *Priestley in America, 1794-1804*. Philadelphia: P. Blakiston's Son & Co., (1920). 8vo. [i], 173 pp. Blue cloth, black stamped cover and spine title; extremities rubbed. Very good. Z1552

\$ 15

Inscription inked on flap: "H.M. Woodburn. Complimentary copy distributed at the Annual Meeting of the A.C.S. at Philadelphia Sept 7, 1926 on the occasion of the awarding of the Priestley medal to Edgar F. Smith." Apparently at the 1926 American Chemical Society meeting, Smith gave away copies of this biography.

Awarded a Gold Medal of the Royal Astronomical Society

916. [**PRITCHARD, Charles** (1808-1893)] **Ada PRITCHARD** [comp.]. *Charles Pritchard, D.D.; F.R.S.; F.R.A.S.; F.R.G.S. Late Professor of Astronomy in the University of Oxford. Memoirs of His Life. With an Account of his Theological Work by the Right Reverend, The Lord Bishop of Worcester and of His Astronomical Work by His Successor, Professor H.H. Turner*. London: Seeley and Co., 1897. **FIRST EDITION**. 8vo. viii, 322, ads. [6] pp. Heliogravure frontis. port. of Charles Pritchard with facsimile inscription and tissue guard, index. Navy cloth, gilt-stamped cover and spine titles (with cover illus.); lightly rubbed. Very good. RARE. Z1555

\$ 200

Pritchard's "career as a professional astronomer began in 1870, when he was elected Savilian professor of astronomy at the University of Oxford. At his request the university decided to build a fine equatorial telescope for the instruction of his class and for purposes of research, a scheme which, as a result of Warren de la Rue's munificent gift of instruments from his private observatory at Cranford, expanded into the establishment of the new university observatory. By De la Rue's advice, Pritchard began his career there with a determination of the physical libration of the moon, or the nutation of its axis. In 1882 Pritchard commenced a systematic study of stellar photometry. For this purpose he employed an instrument known as the "wedge photometer", with which he measured the relative brightness of 2,784 stars between the North Pole and about -10° declination. The results were published in 1885 in his *Uranometria Nova Oxoniensis*, and their importance was recognized by the bestowal in 1886 upon him, conjointly with Professor Pickering, of the Gold Medal of the Royal Astronomical Society" (*Wikipedia*).

917. **PROCLUS.** *Proclus' Commentary on Plato's Parmenides. Translated by Glenn R. Morrow and John M. Dillon, with introduction and notes by ...* Princeton: Princeton University Press, 1987. 8vo. xlvii, 616 pp. Index. Brown cloth. Ink ownership signature of David C. Lindberg. Fine. Scarce. ISBN: 0691073058 / 0-691-07305-8 \$ 85

918. **PROCTOR, Mary** (1862-1957). *The Romance of Comets. Illustrated.* New York and London: Harper & Brothers, 1926. Sm. 8vo. xiii, 210 pp. Frontispiece portrait of E.E. Barnard, 16 photographic plates. Original pale blue stamped cloth, dust-jacket; cover faded, jacket spotted and browned from exposure, but scarce in jacket. Bookplate. Very good.

\$ 95

First edition. Proctor was born in Dublin, Ireland, the daughter of the renowned astronomer Richard Proctor. They immigrated to the United States in 1882. She studied at Columbia University and eventually came to California, lecturing on astronomy.

919. **PTOLEMY.** *Ptolemy's Almagest. Translated and annotated by G. J. Toomer.* Berlin, New York...: Springer, (1984). 8vo. xvii, 693 pp. Figs., index. Cloth, dust-jacket; jacket slightly worn at foot of spine. Ownership ink signatures, including one of David C. Lindberg. Very good +.

\$ 150

FIRST EDITION of this translation. "Ptolemy's Almagest is one of the most influential scientific works in history. A masterpiece of technical exposition, it was the basic textbook of astronomy for more than a thousand years, and still is the main source for our knowledge of ancient astronomy. This translation, based on the standard Greek text of Heiberg, makes the work accessible to English readers in an intelligible and reliable form. It contains numerous corrections derived from medieval Arabic translations and extensive footnotes that take account of the great progress in understanding the work made in this century, due to the discovery of Babylonian records and other researches. It is designed to stand by itself as an interpretation of the original, but it will also be useful as an aid to reading the Greek text." "G.J. Toomer's new English edition of Ptolemy's classic treatise is more than just a fresh translation.... What Toomer has produced is the best edition in any language, one that will remain the standard preferred text for years to come." - Nature. "On the whole the accuracy and faithfulness to the original, including the small but important matter of a scrupulous adherence to Ptolemy's own mathematical notations, are exemplary." - G.E.R. Lloyd, *The Times Literary Supplement*. ISBN: 0387912207

920. **PTOLEMY; William Harris STAHL.** *Ptolemy's Geography; a select bibliography.* New York: New York Public Library, 1953. 8vo. 86 pp. Printed wrappers; cover bent, some minor soiling. INSCRIBED BY THE AUTHOR TO WILLIAM DUANE STAHLMAN. Very good. \$ 25

921. **PUCKLE, G. Hale.** *An Elementary Treatise on Conic Sections and Algebraic Geometry, with numerous examples and hints for their solution, Especially designed for the use of beginners. Third edition, revised and enlarged.* London and Cambridge: Macmillan, 1868. Sm. 8vo. vi, 343, ads. 48 pp. Original maroon cloth; heavily rubbed. Ownership signature on half-title. Good +. \$ 20

922. **[PULFRICH, Carl (1858-1927)] Otto LACMANN.** "Prof. Dr. Carl Pulfrich zum Gedächtnis." Offprint from: *Internationales Archiv Für Photogrammetrie, 1932* vol. 7, Pt. 2 (1932). (280 x 195 mm). 7 pp. Port. photo of Pulfrich with facsimile signature. Stapled wraps. Very good. Z1964 \$ 10
923. **PUTNAM, Frederick Ward (1839-1915) [ed.].** *Fiftieth Anniversary. Constitution, List of Meetings, Officers, Committees and Members of the American Association for the Advancement of Science, for the Forty-Seventh Meeting, Held at Boston, Mass. August, 1898.* Salem: Permanent Secretary, 1898. 8vo. 78 pp. Rebound in stiff library covers, with original printed wrapper cover cut and mounted on front. Former library copy with the usual markings. Good. RARE. Z1557 \$ 18
924. **RAMSAY, Alexander.** *The Scientific Roll and Magazine of Systematized Notes. Volume I. Climate. Parts I & II. Nos. 1-10.* [Part I: General; Part II: Aqueous Vapour]. London: Bradbury, Agnew, & Co., 1882. Single collected edition of the magazine's first volume. 8vo. 308 pp. Diagrams, index to Part I. Navy cloth, gilt-stamped spine title; spine chipped around hinges and ends, inner hinges cracked, ffep. starting. Former library copy with the usual markings. Good. Z1562 \$ 50
925. **RAMSAY, Alexander.** *The Scientific Roll and Magazine of Systematized Notes. Volume I. Climate. Parts I & II. Nos. 1-8, 10 & 11.* [Part I: General; Part II: Aqueous Vapour]. London: Bradbury, Agnew, & Co. & J.H. Fennell, 1880-1883. 10 separate issues. 8vo. 240, 277-340 pp. Diagrams, index to Part I. Original printed wrappers; covers dry and brittle, front cover and title of No. 7 detached. Fair. Z1563 \$ 50
- A work of idiosyncratic interests which attempts to summarize various meteorological works as well as present a bibliography of others over a considerable period of time. This set is missing issue No. 9.
926. **RAMSEY, Arthur Stanley (1867-1954).** *Elementary Geometrical Optics.* London: G. Bell and Sons, 1914. 8vo. xi, 173, [ads 2] pp. 131 figs. Blue blind and gilt-stamped cloth; some black cover stains, rubbed. Ffep trimmed (severely - a fragment), heavy offsetting to half-title. Rubber stamps to half-title and title of the Bath High School for Girls. Ownership signature. Very good. [HL] \$ 15
927. **RAMSEY, Arthur Stanley (1867-1954).** *Hydrostatics. A text-book for the use of First Year Students at the Universities and for Higher Divisions in Schools.* Cambridge: University Press, 1936. 8vo. viii, 169 pp. Figs. Original brown gilt-stamped cloth; spine head frayed. Ink title-page ownership signature of Harold Levine, 1939. Generally very good. [HL] \$ 10
928. **RAMSEY, Arthur Stanley (1867-1954).** *An Introduction to the Theory of Newtonian Attraction.* Cambridge: University Press, 1940. 8vo. ix, 184 pp. Original maroon gilt-stamped cloth. Ink title-page ownership signature of Harold Levine, 1941. Very good. [HL] \$ 18
929. **RAMSEY, Arthur Stanley (1867-1954).** *Statics. A Text-book for the use of the Higher Divisions in Schools and for First Year Students at the Universities.* Cambridge: University Press, 1934. 8vo. xi, 296 pp. Green gilt-stamped cloth; extremities worn (mostly spine head). Ink title-page ownership signature of Harold Levine, 1939. Very good. [HL] \$ 8

930. **RAMSEY, Arthur Stanley** (1867-1954). *Dynamics; a text-book for the use of Higher Divisions in Schools and for First Year Students at the Universities. Second edition (vol. I). [With: Dynamics; Part II]*. Cambridge: University Press, 1933, 1937. 2 volumes. 8vo. xii, 259; xi, 344 pp. Blue gilt-stamped cloth; vol. I rear joint split and mended, vol. II spine faded. Mis-matched set with "VOLUME II" on the spine (vol. I shows no indication of a volume no.). Ink title-page ownership signatures of Harold Levine, 1939/1941. Otherwise very good. [HIL] \$ 15
931. **RAMSEY, Arthur Stanley** (1867-1954). *Electricity and Magnetism. An introduction to the Mathematical Theory*. Cambridge: University Press, 1937. 8vo. x, 267 pp. Original bluish-grey cloth; spine faded and cracked, head and tail chipped or frayed, cover waterstained at lower areas of front & back covers. Ink title-page ownership signature of Harold Levine, 1939. Good working copy. [HIL] \$ 6
932. **RAMSEY, Arthur Stanley** (1867-1954). *Elementary Geometrical Optics*. London: G. Bell and Sons, 1914. 8vo. xi, 173, [ads 2] pp. 131 figs. Blue blind and gilt-stamped cloth (with "Class Room" stamped in gilt on upper cover). Very good. [HL] \$ 20
933. **RAMSEY, Arthur Stanley** (1867-1954). *A Treatise on Hydromechanics. Part II: Hydrodynamics*. London: G. Bell and Sons, 1949. Fourth edition, reprinted. 8vo. xii, 415 pp. Index. Red gilt-stamped cloth; rubbed, occasional wear to extremities. Very good. [HL] \$ 12
934. **[RAMUS, Peter - RAMÉE, Pierre de la** (1515-1572)] **R. HOOYKAAS**. *Humanisme, Science et Réforme, Pierre de la Ramée*. Leiden: E.J. Brill, 1958. Separate issue: *Free University Quarterly*, vol. V, 1958. 8vo. xi, 133 pp. Index; ink underlining throughout. Printed wrappers. Ink ownership signature of David C. Lindberg. Very good (noting underlining). \$ 17
 "Petrus Ramus ... was an influential French humanist, logician, and educational reformer. A Protestant convert, he was killed during the St. Bartholomew's Day Massacre... He corresponded with John Dee on mathematics, and at one point recommended to Elizabeth I that she appoint him to a university chair." [Wikipedia].
935. **RASHED, Roshdi**. *Histoire des Sciences Arabes. [1. Astronomie, 2. Mathématiques et physique, 3. Technologie, alchimie et sciences de la vie.]* Paris: éditions du Seuil, (1997). 3 volumes. 8vo. 376; 422; 321 pp. Illustrated throughout, index. Cloth, dust-jackets; jackets a bit rubbed. AUTHOR'S COPY. Very good. \$ 100
 This is David C. Lindberg's copy; he contributed a paper in volume II: "La réception occidentale de l'optique arabe." BL2964
936. **[RAY, John] Charles E. RAVEN**. *John Ray Naturalist; His Life and Works*. Cambridge: Cambridge University Press, (1986). 8vo. xxv, 506 pp. Frontis., index. Printed wrappers. Very good +. [BL2965] \$ 25
937. **REIMER, Wilbert; Luetta REIMER**. *Historical Connections in Mathematics; Resources for Using History of Mathematics in the Classroom*. Fresno: AIMS Educational Foundation, 1992. 4to. vi, 103 ff. Figs. Printed wrappers; spine exposed and with manuscript spine title. Very good. ISBN: 1881431355 / 1-881431-35-5 [BH] \$ 12

938. **REDTENBACHER, Ferdinand** (1809-1863). *Geistige Bedeutung der Mechanik und Geschichtliche Skizze der Entdeckung ihrer Principien, Vortrag gehalten im Herbst 1859 von Ferdinand Redtenbacher. Biographische Skizze und Festbericht. Erinnerungsschrift zur siebenzigjährigen Geburtstagsfeier F. Redtenbacher's herausgegeben von Rudolf Redtenbacher.* Munich: Fr. Bassermann, 1879. 8vo. vi, (vii), 112 pp. Original printed wrappers; extremities chipped, including spine ends. Very good. Z1966

§ 200

Redtenbacher is considered to be the founder of science based mechanical engineering. "Since most of Redtenbacher's own education was focused on theory, he observed that practical applications in mechanical engineering were being neglected, and that this neglect was detrimental to engineers who wished to work outside of academia. Thus, upon entering the Karlsruhe, Redtenbacher decided to change the format of engineering education. He implemented most of the changes in his Mathematisierung (the machine teachings), which merged mechanical engineering and higher mathematics. Redtenbacher believed that this merger would help bring theory and the practical applications of such theory together... Thus, under Redtenbacher's direction, the Karlsruhe became world famous and became the model for engineering education in other universities" (KMODDL, "Ferdinand Redtenbacher (1809-1863)." [Internet]. Ithaca: Kinematic Models for Design, n.d.).

Key Bibliographical Source for Mathematics

939. **RICCARDI, Pietro** [ed.]. *Biblioteca Matematica Italiana. Dalla Origine della Stampa ai Primi Anni del Secolo XIX. Ripubblicata a Cura della Società Tipografica Modenese con Due Nuove Serie di Aggiunte dell'Autore.* Modena: Coi Tipi della Società Tipografica, Antica Tipografia Soliani, 1873-1928. 4 volumes. First editions. 4to. Multiple paginations. Volumes I-III bound by Rivière & Son in half dark green leather with green cloth sides, gilt-stamped spine title with raised bands, t.e.g.; some of the leather is discolored to brown (as usual); the volume IV is bound by another binder, but to match the originals very closely. Fine. Scarce.

§ 1,000

FIRST EDITION, with the supplement. The most important bibliographic resource for early Italian mathematics books. Complete: includes: Parte Prima in two volumes, Parte Seconda in a single volume, and a supplemental volume subtitled, *Correzioni ed Aggiunte Serie VII, Pubblicazione postuma a cura della R. Accademia di Scienze, Lettere ed Arti in Modena.*

940. **RIEBESELL, Paul.** *Die mathematischen Grundlagen der Variations-und Vererbungslehre.* Leipzig & Berlin: Teubner, 1916. Sm. 8vo. 45 pp. Frontis. port. of Gregor Mendel. 15 figs. Original printed boards. Fine. Bookplate and signature of Dr. Paul Thalmann (Bern, 1925), German physics professor. § 25

941. **RIESS, Adam (1492-1559) [or RIESE].** *Adam Riess vom Staffelstein Rechenmeister und Cossist.* (Leipzig): Stadt Staffelstein, 1992. Series: Staffelsteiner Schriften, Band 1. 8vo. x, 353 pp. Frontis., illus., figs., 92 plates, index. Brown cloth, dust-jacket. This is a modern edition of Riess' classic sixteenth-century algebra treatise, being the first time it was printed, thus this is a first edition. He is considered the 'father of modern calculating.' ISBN: 3980294307 / 3-9802943-0-7 [BH] § 20

942. **[RIESE, Adam; or RIESS (1492-1559)] VOGEL, Kurt.** *Adam Riese der deutsche Rechenmeister.* Munich: R. Oldenbourg, 1959. Offprint: Deutsches Museum Abhandlungen und Berichte, heft 3, 1959. Sm. 8vo. 47 pp. Illus., figs. Printed wrappers. Bookplate of Barnabas Hughes (rear). Fine. [BH] \$ 5
943. **RIST, John M.** *Platonism and its Christian Heritage.* London: Variorum Reprints, 1985. 8vo. Various paginations. Index. Blue cloth. Ink ownership signature of David C. Lindberg. Fine. \$ 150
 "John M. Rist was educated at Trinity College, Cambridge. He completed the Classical Triplos, Part 1 and Part 2, the latter with a specialization in ancient philosophy, in 1958 and 1959; he proceeded to the MA in 1963. He taught Greek at University College in the University of Toronto from 1959 to 1969. From 1969 to 1980 he was Professor of Classics at the University of Toronto. From 1980 to 1983 he was Regius Professor of Classics at the University of Aberdeen, and from 1983 to 1996 he returned to the University of Toronto as Professor of Classics and Philosophy, with a cross-appointment to St. Michael's College from 1983 to 1990. He became Professor Emeritus of the University of Toronto in 1997 and has been part-time Visiting Professor at the Institutum Patristicum Augustinianum in Rome since 1998. In 1976 he was elected a Fellow of the Royal Society of Canada, and in 1991 he was elected a life member of Clare Hall, Cambridge. In 1995 he was the Lady Davis Visiting Professor in Philosophy at the Hebrew University in Jerusalem." ISBN: 0860781690 / 0-86078-169-0
944. **RITTENHOUSE, David** (1732-1796); **Brooke HINDLE** [ed.]. *The Scientific Writings of David Rittenhouse.* New York: Arno Press, 1980. Reprint. Series: *Three Centuries of Science in America.* 8vo. Multiple paginations (55 separate papers and extracts from papers by Rittenhouse). 12 illustrations. Gilt-stamped green cloth. Fine. ISBN: 0405125682 Z1574 \$ 60
945. **[RITTENHOUSE, David** (1732-1796)] **Maurice Jefferis BABB.** "The David Rittenhouse Bicentenary." Offprint from: *Scientific Monthly*, 1932. December, 1932, Vol. XXXV, pp. 522-542. (260 x 185 mm). 21 pp. Frontis. port. of Rittenhouse. Printed wrappers; extremities a bit soiled. Very good. Z1967 \$ 15
946. **[RITTENHOUSE, David** (1732-1796)] **Edward FORD.** *David Rittenhouse, Astronomer-Patriot, 1732-1796.* Philadelphia: University of Pennsylvania Press, 1946. FIRST EDITION. Series: *Pennsylvania Lives.* 8vo. viii, 226 pp. Frontis. port. of Rittenhouse, index. Blue cloth, gilt-stamped cover initials and spine title. Printed portions of dust-jacket have been cut apart and tipped in onto endleaves. Very good. Z1573 \$ 45
947. **[RITTER, Carl** (1779-1859)] **W. L. GAGE** (1832-1889).). *The Life of Carl Ritter: Late Professor of Geography in the University of Berlin.* New York: Charles Scribner, 1867. 8vo. viii, 242 pp. Burgundy cloth, gilt-stamped spine title; extremities rubbed, spine ends chipped. Former library copy with the usual markings and defects. Previous owner's inked signature. Fair. Z1575 \$ 16
948. **ROBINS, Gay & Charles SHUTE.** *The Rhind Mathematical Papyrus, an ancient Egyptian text.* New York: Dover, (1990). 8vo. 81 pp. illus. figs. 24 colored plates. Printed wrappers. Small ink notation to ffep, very good +. ISBN: 0486264076 / 0-486-26407-6 [BH] \$ 16

949. **ROBIN, Gustave** (1855-1897). *Oeuvres Scientifiques; Réunies et publiées sous les auspices du ministère de l'instruction publique par Louis Ralfy. Physique Mathématique*. Paris: Gauthier-Villars, 1899. 8vo. vi, 150 pp. Original printed wrappers; upper cover torn and partly mended with tape, spine mended with kozo. Good. [HL] \$ 10
950. [**RODGERS, John** (1812-1882)] **Asaph HALL**. *Biographical Memoir of John Rodgers, 1812-1882*. Washington, D.C.: Judd & Detweiler, 1907. Small 4to. 81-92 pp. Frontis. port. of Rodgers with facsimile autograph. Printed wrappers. Embossed stamps on frontis. and title. Very good. Z1970 \$ 10
951. [**ROGERS, William A.**] **Arthur SEARLE**. *Biographical Memoir of William A. Rogers. Part II. Astronomical Work*. Washington, D.C.: Judd & Detweiler, 1907. Small 4to. 109-117 pp. Frontis. port. of Rogers with facsimile autograph. Printed wrappers. Embossed stamps on frontis. and title. Very good. Z1973 \$ 10
952. **ROGERS, William Barton** (1804-1882). *Life and Letters of William Barton Rogers. Edited by His Wife with the Assistance of William T. Sedgwick*. Boston and New York & Cambridge: Houghton, Mifflin, and Co. & The Riverside Press, 1896. Two vols. 8vo. viii, (ix), 427; vi, (vii), 451 pp. Frontis. (both vols.), plates, index. Green cloth, gilt-stamped spine title, dust-jacket; jackets chipped with some stains (Vol. II only), else very good. Rare in jackets. Z1580 \$ 95
- For Rogers and his brother, Henry Darwin Rogers (1808-1866), see D.S.B., XI, pp. 504-6. The Rogers brothers are best known for their "On the Physical Structure of the Appalachian Chain, as Exemplifying the Laws Which Have Regulated the Elevation of Great Mountain Chains Generally" [In: *Reports of the Meetings of the Association of American Geologists and Naturalists*, 1843, pp. 474-531, earlier printed as abstracts in two 1842 publications]. They were also early defenders and proponents of Charles Darwin.
953. [**ROGERS, Williams Barton** (1804-1882)] **Francis H. SMITH**. *In Memory of Williams Barton Rogers, LL.D., Late President of the Society*. Boston: Society of Arts, of the Massachusetts Institute of Technology, 1882. 8vo. 39 pp. Frontis. port. of Rogers. Original printed wrappers; covers a bit worn. Front cover ownership signature of David S. Bissell. Good. RARE. Z1974 \$ 10
954. [**RØMER, Ole Christensen** (1644-1710)] **Elis STRÖMGREN** (1870-1947). *Ole Rømer som Astronom. Med Særligt Henblik Paa Hans Betydning For De Astronomiske Instrumenters Og Den Astronomiske Observationskunsts Historie. Udgivet I Anledning Af 300-Aardagen For Ole Rømer Fødsel Den 25. Sept. 1644*. København: I Kommission hos Ejnar Munksgaard, 1944. Series: *Det Kgl. Danske Videnskabernes Selskab*. 8vo. 137 pp. Gravure frontis. port. of Rømer with tissue guard, gravure port. of Peder Horrebow, 29 figs. Original printed wrappers; wraps a bit worn. Former item of the Franklin Institute Library, with perforated stamps, inked number on front cover, and bookplate. Very good. Z1583 \$ 30
955. [**RØMER, Ole Christensen** (1644-1710)] **George VAN BIESBROECK** (1880-1974). "Les Travaux Astronomiques d'Olaüs Roemer." Offprint: *Ciel et Terre*, 1913. *Bulletin de la Société belge d'Astronomie*, No. 5 [1913]. (245 x 155 mm). 18 pp. Figs. Printed wrappers. SIGNED PRESENTATION INSCRIPTION FROM THE AUTHOR. Fine. Z1971 \$ 15

956. **[RØMER, Ole Christensen (1644-1710)] Axel Vilfred NIELSEN (1902-1970).** "Ole Rømer and His Meridian Circle." Offprint from: *Vistas in Astronomy*, Vol. 10, pp. 105-112. Oxford and New York: Pergamon Press, 1968. (250 x 185 mm). 8 pp. 4 figs. Printed wrappers. SIGNED BY THE AUTHOR. Near fine. Z1972 \$ 18
957. **[RØMER, Ole Christensen (1644-1710)] Mogens PIHL (1907-1986).** *Ole Rømers Videnskabelige LIV. København: I Kommission Hos Ejnar Munksgaard, 1944.* Series: *Det Kgl. Danske Videnskabernes Selskab*. 8vo. 98 pp. 15 figs. Printed wrappers; wraps a bit worn. Former library copy with the usual markings and defects, including perforated stamp on title. Very good. Z1582 \$ 24
958. **RONCHI, Vasco.** *Histoire de la Lumière. Traduit de l'Italien par Juliette Taton.* Paris: Librairie Armand Colin, 1956. Series: *Bibliothèque Générale de École Pratique des Hautes Études* (France). 8vo. 290, [1] pp. 84 illus., index. Original printed wrappers; foot of spine a bit worn. Very good. Ownership signature of Roger Hahn. Scarce. \$ 50
The first edition was written in 1939. Ronchi (1897-1988), a prolific writer, was Director of the *Institut National d'Optique de Florence*. He was a prominent Italian physicist known for his work in optics. A much expanded second edition appeared in 1952.
959. **ROSCOE, Henry Enfield (1833-1915).** *Ein Leben der Arbeit Erinnerungen von Sir Henry Roscoe. Autorisierte Übersetzung nach der englischen Originalausgabe von Rose Thesing. Mit einer Einführung von Wilhelm Ostwald. Mit 18 Abbildungen und der Wiedergabe von drei Originalbriefen.* Leipzig: Akademische Verlagsgesellschaft, 1919. Series: *Grosse Männer: Studien zur Biologie des Genies*. Siebenter Band. 8vo. xv, (xvi), 362, ads. [5] pp. Half-tone frontis. port. of Roscoe with facsimile autograph, 16 half-tone plates (excluding frontis.), shorter trimmed facsimile of letter from Robert Bunsen (1811-1899) to Roscoe, index; pages browned. Original beige cloth, black stamped cover and spine titles; corners showing. Very good. Z1587 \$ 30
960. **ROSCOE, Henry Enfield [ed.] (1833-1915).** *Science Lectures delivered in Manchester 1873 and 1874. Fifth and Sixth Series.* Manchester: John Heywood, (1875). Series title: *Science lectures for the people*. Sm. 8vo. 267 pp. Original purple cloth stamped in gilt and black; rear joint split. As is. \$ 15
Includes papers by Tyndall, Crystalline and Molecular Forces, and Roscoe on John Dalton.
961. **ROSEN, Edward.** *The Naming of the Telescope. Foreword by Harlow Shapley.* New York: Henry Schuman, (1947). Sm. 8vo. xvi, 110 pp. 15 illus. (including frontis.), index. Cloth, dust-jacket; jacket chipped at spine ends. Ink ownership signature of David C. Lindberg. Very good. [BL2967] \$ 10
962. **ROSSELAND, Svein (1894-1985).** *Theoretical Astrophysics; Atomic Theory and the annals of stellar atmospheres and envelopes.* Oxford: Clarendon Press, 1936. Series: *The International Series of Monographs on Physics*. 8vo. xix, 355 pp. Index; ink marginalia throughout chapter XXIII. Title ink signature of Harold Levine, 1941. Very good. Rosseland was a pioneer in astrophysics. [HL] \$ 20

963. **ROUTH, Edward John** (1831-1907). *A Treatise on Analytical Statics with numerous examples. Second edition.* [Vol. II: ... revised and enlarged]. Cambridge: University Press, 1896, 1902. 2 volumes. Mixed set. 8vo. xii, 391; xiv, 376 pp. Bound in later blue cloth, preserving original black leather gilt-stamped spine labels. Title ink signature of Harold Levine, 1941, 3 red ink underlining marks on p. 131, vol. II. Very good. \$ 45
964. **ROUTH, Edward John** (1831-1907). *The Elementary Part of a Treatise on the Dynamics of a System of Rigid Bodies. Being part I. of a treatise on the whole subject. With numerous examples. Sixth edition, revised and enlarged.* [with]: *The Advanced Part of a Treatise on the Dynamics of a System of Rigid Bodies. Fifth edition, revised and enlarged.* London & New York: Macmillan, 1897, 1892. 2 volumes. 8vo. xiii, [1], 424; xii, 431, [1] pp. Figs., index. Original dark green blind and gilt-stamped cloth; joints worn, vol. II with loose signatures, spine tears (mended). Ink title-page ownership signature of Harold Levine, 1942 (1892 vol.). As is. [HL] \$ 25
965. **ROUTH, Edward John** (1831-1907). *A Treatise on Dynamics of a Particle. With numerous examples.* Cambridge: University Press, 1898. 8vo. xi, [1], 417, [1] pp. Figs., index. Original olive green black and gilt-stamped cloth; extremities showing wear, rear joint and title-gutter mended with kozo, lacks ffep. Ink title-page ownership signature of Harold Levine, 1942. Good. [HL] \$ 22
966. **ROUTH, Edward John** (1831-1907). *A Treatise on the Stability of a Given State of Motion, particularly steady motion. Being the essay to which the Adams Prize was adjudged in 1877, in the University of Cambridge.* London: Macmillan, 1877. 8vo. xii, 108 pp. Title-page ink inscription on upper margin of St. John Stephen, Caius Coll[ege]. Camb., 16th Oct. 1877. Early half plain calf, brick red cloth, red and black gilt-stamped spine labels; head spine worn, otherwise rubbed. "St. J. S." in gilt at foot of spine (see provenance). Very good. [HL] \$ 250
967. **ROWLAND, Henry Augustus** (1848-1901). *The Physical Papers of Henry August Rowland, Ph.D., LL.D. Collected for Publication by a Committee of the Faculty of the University.* Baltimore: Johns Hopkins Press, 1902. 8vo. xi, 704 pp. Gravure frontis. port. of Rowland with tissue guard, 10 plates, figs., tables, index. Burgundy cloth, gilt-stamped cover and spine titles; inner hinge cracked. Former library copy with the usual markings and defects (some plates blind stamped). Good +. Z1589

\$ 90

First collected edition of Rowland's work in physics. Includes a detailed description, with illustrations, of his dividing engine; reprints of 55 of his 64 published papers and all 6 of his "addresses" as listed in the bibliography; and a biographical sketch of Rowland by Thomas Corwin Mendenhall (1841-1924). Henry A. Rowland was the first professor of physics at Johns Hopkins (1876-1901). He is generally regarded as the foremost American physicist of the nineteenth century. He developed techniques for making precise concave spectral gratings. These new gratings were a boon to the growing field of spectroscopy, and Rowland used them advantageously in preparing a map of the solar spectrum (1886-95). Rowland's researches were concerned with heat, light, and especially electricity and magnetism. In 1868, he demonstrated for the first time that the motion of charged bodies produced magnetic effects. His physical papers are preceded by a biographical introduction by Mendenhall and it contains a bibliography. See: *DSB* XI, pp. 577-579.

968. **Royal Astronomical Society.** *Supplementary Catalogue of the Library of the Royal Astronomical Society. June 1898 to June 1925.* London: Royal Astronomical Society, 1926. 8vo. [i], 176 pp. Quarter red cloth with printed paper boards; edges lightly worn. Very good. Rare. Z1596 \$ 45
969. **Royal Astronomical Society;** Frederick William LEVANDER (1839-1916) [comp.]. General Index to Volumes XXXIX. to LX. of the Memoirs of the Royal Astronomical Society, 1871-1915. London: Royal Astronomical Society, (circa 1915). 8vo. 14 pp. Black cloth, gilt-stamped spine title; extremities rubbed and a bit stained. Library bookplate. Very good. Rare. Z1594 \$ 35
970. **Royal Astronomical Society; William Henry WESLEY** (1841-1922) [comp.]. *Supplementary Catalogue of the Library of the Royal Astronomical Society. June 1884 to June 1898.* London: Royal Astronomical Society, 1900. 8vo. [i], 175 pp. Printed paper boards; front cover detached, top spine end chipped and missing. Good. Z1595 \$ 17
971. **Royal Statistical Society.** *Catalogue of the Library of the Royal Statistical Society.* London: The Royal Statistical Society, 1908. 8vo. vi, (vii-viii), 276 pp. Dark blue cloth, gilt-stamped spine title; extremities rubbed, inner hinge cracked. Of special note for including the library of CHARLES BABBAGE. Very good. Z1592 \$ 37.50
972. **[RUMFORD, Benjamin Thompson, Sir, Count (1753-1814)] American Academy of Arts and Sciences.** *An Exhibition of the Scientific Works of Count Rumford. Prepared in Celebration of the Bicentennial of Rumford's Birth by The American Academy of Arts and Sciences March 26, 1953.* [Cambridge]; Sanborn C. Brown, 1953. 8vo. 32 pp. Illustrations. Printed wrappers; slightly rubbed. SCARCE. Very good. Z1598 \$ 22
973. **[RUMFORD, Benjamin Thompson, Sir, Count (1753-1814)] Harlow SHAPLEY** [ed.]. *The Rumford Bicentennial. A Record of Scientific and Biographical Papers Presented at the Symposium Marking the Two-Hundredth Anniversary of the Birth of Benjamin Thompson, Count Rumford, Held at the American Academy of Arts and Sciences in Boston on the Twenty-Sixth to the Twenty-Eighth of March, 1953.* Boston: The Academy, 1953. Series: Proceedings of the American Academy of Arts and Sciences, Vol. 82, No. 7, pp. 249-368, December, 1953. 8vo. 120 pp. Illustrations, figs., tables, index. Printed wrappers; slightly rubbers. Very good. Z1599 \$ 28
974. **[RUMFORD, Benjamin Thompson, Sir, Count (1753-1814)] W.J. Knight SPARROW of the White Eagle.** *Sir Benjamin Thompson, Count Rumford of Woburn, Mass.* New York: Thomas Y. Crowell, (1965). First U.S. Edition. 8vo. 302 pp. Frontis., plates, figs., index. Green cloth, gilt-stamped spine title, dust-jacket; jacket rubbed. Very good. Z1600 \$ 15
975. **[RUNKLE, John Daniel (1822-1902)] H. W. TYLER.** *John Daniel Runkle, 1822-1902: A Memorial.* Boston: Geo. H. Ellis, 1902. 8vo. 32 pp. Covers missing, rear page detached. This is the scarce reprint (1902) from the Technology Review, Vol. IV, No. 3. This is not a print-on-demand copy. AS IS. Z1976. \$ 10

976. **RUSSELL, Colin Archibald** (1928-2013). *The History of Valency*. (New York): Leicester University Press; Humanities Press, 1971. 8vo. xii, 373 pp. 12 illus., index. Brown cloth, dust-jacket; jacket rubbed. ISBN: 0718510860 \$ 25
- “Russell’s four-part book is well-planned and arranged-a veritable model of organization. Although not biographical in approach, much biographical data are provided wherever pertinent. The concept of valency did not spring like Pallas Athena fully armed from Zeus’ forehead but gradually “underwent successive modifications and refinements as it became incorporated within the changing fabric of nineteenth-century chemical theory.” The volume aptly illustrates the evolutionary nature of the theory and emphasizes the close interrelationship of the various events and discoveries involved.” - ISIS vol. 63, no. 4, Dec., 1972, pp. 563-66.
977. **RUTHERFORD, Ernest**. *Radioactive Substances and their Radiations*. Cambridge: University Press, 1913. First edition. 8vo. vii, [i], 699, [1] pp. 131 figures, many diagrams, appendices, index. Original gilt-stamped dark green cloth; tail rubbed, hinge repaired, short spine end tear. Ex-library copy with multiple rubber-stamps [Dominion Astronomical Observatory, Ottawa, Canada; “4556” gilt stamped on spine]. Very good. \$ 125
978. [**RUTHERFORD, Ernest** (1871-1937)] **Lawrence BADASH** [comp.]. *Rutherford Correspondence Catalog*. New York: American Institute of Physics, (1974). Series: National Catalog of Sources for History of Physics, Report Number Three. 4to. vii, 174, [1] pp. Printed wrappers. Errata sheet with cover letter loosely placed in. Fine. Scarce. Z1602 \$ 35
979. **RYAN, James E.** *The Standard Arithmetic, for Schools of All Grades and for Business Purposes. In two numbers. Number One*. New York: The Catholic Pub. Society, 1877. Sm. 8vo. [iii]-184, 14 pp. Original brick red black and blind-stamped cloth; spine ends a bit frayed. Very good. Very scarce. [BH] \$ 20
980. **SABRA, A.I.** *Theories of Light from Descartes to Newton*. Cambridge: Cambridge University Press, (1981). 8vo. 365 pp. Cloth, dust-jacket. Very good. \$ 50
- Sabra (b.1930) “is a retired professor of the history of science specializing in the history of optics and science in medieval Islam. ... In 2005 he was awarded the Sarton Medal for lifetime achievement in the history of science by the History of Science Society.” ISBN: 0521240948 / 0-521-24094-8
981. [**SABINE, Wallace Clement Ware** (1868-1919)] **William Dana ORCUTT** (1870-1953). *Wallace Clement Sabine: A Study in Achievement*. Norwood: Privately Printed by the Plimpton Press, 1933. 8vo. xiv, (xv), 376 pp. Frontis. port. of Sabine with tissue guard, half-title, 8 plates, index. Red cloth, gilt-stamped cover signature and spine title, t.e.g., dust-jacket; jacket has some minor tears. Bookplate, inked gift presentation inscription on half-title, small newspaper obituary headline on half-title, lacking front free fly-leaf. Very good. Z1605 \$ 28
982. **SACKS, Oliver**. *Uncle Tungsten: Memories of a Chemical Boyhood*. New York: Alfred A. Knopf, 2001. 8vo. viii, 337 pp. Photographs, index. Illustrated paper-backed boards, dust-jacket. SIGNED by author in ink at title-page. Fine. ISBN: 0375404481 \$ 35

983. **SACROBOSCO, Johannes de; Lynn THORNDIKE.** *The Sphere of Sacrobosco and Its Commentators.* Chicago: University of Chicago Press, (1949). 8vo. x, 496 pp. Index. Cloth, dust-jacket; jacket quite worn. Ink ownership signature of David C. Lindberg. Fine in very good jacket. \$ 65
- FIRST EDITION. Contents: Sigla of the manuscripts; the Sphere of Johannes de Sacrobosco, Latin text and English translation; the commentary of Robertus Anglicus in Latin and English translation; the Latin commentary ascribed to Michael Scot; Latin commentary of Cecco d'Ascoli; anonymous commentary or glosses; as well as the sphere of John Peckham [Pecham]; anonymous commentary in MS Canon. Misc. 105; and in MS Gonville and Caius 137; Alius Tractatus de Spera; Anonymous commentary in MS Vatican Latin 4082, plus indices.
984. **SAGE, James.** *A Miscellaneous List of Valuable and Interesting Books. No. 3, 1855 & No. 1, 1857.* London: James Sage, 1855, 1857. Two catalogs. 8vo. 16; 16 pp. Self-wraps. Good. Rare. Z1376 \$ 30
985. **SAINT-JUST, Louis Antoine Léon de (1767-1794); Jean GRATIEN; Dionys MASCOLO.** *Saint-Just - Oeuvres choisies - Discours, rapports, institutions républicaines, proclamations, lettres.* [Paris?]: Gallimard, 1968. Sm. 8vo. 378, [4] pp. Pictorial wrappers; spine a bit faded, else fine. \$ 12
986. **SAKHAROV, Andrei (1921-1989).** *Memoirs. Translated from the Russian by Richard Lourie.* New York: Alfred A. Knopf, 1990. First American Edition. 8vo. xxi, 773 pp. Plates, glossary of names, index. Black cloth, gilt-stamped cover initials and spine title, dust-jacket. Near fine. "A pioneering physicist, creator of the Soviet H-bomb, Nobel laureate, ... Sakharov gave up his privileges and positions to become the leader of the Soviet dissident movement and a world-renowned human rights activist." ISBN: 0394537408 Z1607 \$ 10
987. **[SCHÆR, Émile (1862-1931)] Georges TIERCY.** "Un astronome artiste-opticien: Émile Schær, 1862-1931." In: *Publications de L'Observatoire de Genève. Série A. Astronomie, Chronométrie, Géophysique. Fascicule 18, 6me fascicule du vol. 3, 1932.* [One of 24 issues bound together in one volume]. Genève: Albert Kundig, 1928- 1933. Whole volume: 1-24 fascicules. 8vo. Pagination for the entire volume varies [this article: pp. (253)-265 (9 pls.)]. Plates, tables. Dark blue-green library buckram, gilt-stamped spine title. Very good. Z1610 \$ 125
- Features numerous articles by Professor Georges Tiercy (1886-1955), an astronomer from Geneva. This volumes contains a biography about Emile Schaer: "Swiss telescope-making has been dominated by the work of Emile Schaer, optician and astronomer at the Geneva Observatory until 1926." [King, *The History of the Telescope*, p. 419]. This memorial tribute includes a list of 53 instruments maintained or made by Schaer and a nice selection of half-tone illustrations, including astrophotos of comets, nebulae, and planets taken with his instruments. This entry is part of a bound collection of publications from the Geneva Observatory which includes Nos.1-24, 1928-1933.
988. **SARTON, George (1884-1956).** *Horus. A Guide to the History of Science. A First Guide for the Study of the History of Science. With Introductory Essays on Science and Tradition.* New York: Ronald Press, (1952). 8vo. xviii, 316 pp. Figs., decorative tailpieces, index. Light orange cloth, green stamped cover illustration

and spine title; adhesive stains to covers. Former library copy (spine call number, rubber-stamp on title and top edge). Very good. Z1609 § 10

989. **SARTON, George.** *Introduction to the History of Science. Volume I: From Homer to Omar Khayyam; volume II [Parts I & II]: From Rabbi Ben Ezra to Roger Bacon; volume III [Parts I & II]: Science and Learning in the Fourteenth Century.* Baltimore: Carnegie Institution of Washington; Williams & Wilkins, (1953, 1962). 3 volumes in 5. Series: *Carnegie Institution of Washington*, no. 376. 8vo. xi, 839; xxxv, 480; xvi, 485-1251; xxxv, 1018; x, 1019-2155 pp. Plates, indexes. Blue cloth, gilt spines. Bookplate of David C. Lindberg, with his signatures. Near fine. § 275

Uranographie Chinoise

990. **SCHLEGEL, Gustave** (1840–1903). *Uranographie Chinoise ou preuves directes que L'astronomie primitive est originaire de la Chine, et qu'elle a été empruntée par les anciens peuples occidentaux à la sphère chinoise ; ouvrage accompagné d'un atlas céleste chinois et grec. Publié par l'institut royal pour la philologie, la géographie et l'ethnologie des indes orientales néerlandaises à la Haye.* La Haye: Librairie de Martinus Nijhoff; Leyde: Imprimerie de E. J. Brill Relié 1875. [Text vols. have, at head of title, a Chinese title and its transliteration, given as: *Sing chin khao youen.*] 2 volumes (mis-matched) with separate atlas volume. Large 8vo. xiv, 646; [vi], 647-929 pp. Atlas: 7 large plates. [Complete] Text in French and with some Chinese. Volume one in 19th century quarter calf with original printed cover mounted over marbled boards; volume two with original wrappers; vol. II disbound (spine lacking), both volumes worn and with extensive internal pencil notes. Atlas wrapper is a remnant, but printed cover is present. Good. VERY RARE.

§ 750

FIRST EDITION of “the first comparative study of constellations between China and the Middle East.” Allen adds that Schlegel nearly doubles the recorded entries of comets (comparing those named by John Williams or Flamsteed).

“As early as 1875, Gustav Schlegel made a tremendous effort to study the star names. In his huge volume *Uranographie Chinoise* he made a complete survey of Chinese star names which had appeared in ancient literature. About 760 star names were identified based on textual research and about 700 other variant star names were mentioned. He managed to correlate all these star names with western ones basically according to the star map in the *Tianyuan lili quanshu ...* (Complete Treatise on Calendars) by Xu Fa ... (early Qing). The number of star names became very large because he counted all synonymous and variant astrological names. These names, of course, sometimes helped to understand the meaning of the constellations, but in most cases only added confusion. Schlegel’s major effort was to search for as many analogies as possible between the Chinese and the European nomenclatures, the latter, as he correctly pointed out, actually being derived from ancient Egyptian and Babylonian nomenclatures. Thus his book was the first comparative study of constellations between China and the Middle East.” - Xiaochun Sun & Jacob Kistemaker, *The Chinese Sky During the Han: Constellating Stars and Society*, 1997 (p. 8).

☼ Allen, Richard H., *Star Names; their lore and meaning*, p 22; *Catalogue of the Crawford Library of the Royal Observatory*, Edinburgh, 1890, p. 404; Houzeau & Lancaster 609. Not in Thomas Hockey, *Biographical Ency. of Astronomers*.

991. [SCHLESINGER, Frank (1871-1943)] Dirk BROUWER. *Biographical Memoir of Frank Schlesinger, 1871-1943*. Washington: National Academy of Sciences, 1945. Series: *NAS, Biographical Memoirs*, Vol. XXIV, Third Memoir. 8vo. 105-144 pp. Frontis. port. of Schlesinger with facsimile autograph. Printed wrappers. Fine. Z1981 \$ 10
992. SCHMITT, Charles B. *A Critical Survey and Bibliography of Studies on Renaissance Aristotelianism 1958-1969*. Padova: Antenore, 1971. Series: *Saggi e Testi* 11, jointly with Columbia University. 8vo. 196 pp. Index. Printed wrappers. Ink ownership signature of David C. Lindberg. Fine. \$ 22
993. SCHMITT, Charles R.; Quentin SKINNER; Eckhard KESSLER (editors). *The Cambridge History of Renaissance Philosophy*. Cambridge: Cambridge University Press, (1988). Thick 8vo. xiii, 968 pp. Index. Cloth, dust-jacket. Ink ownership signature of David C. Lindberg. Very good +. [BL2970] \$ 75
994. [SCHOTT, Charles Anthony (1826-1901)] Cleveland ABBE. *Biographical Memoir of Charles Anthony Schott, 1826-1901*. Washington: National Academy of Sciences, 1915. Series: *NAS, Biographical Memoirs*, Part of Vol. VIII. 8vo. 87-133 pp. Frontis. port. of Schott with facsimile autograph. Printed wrappers; spine end chipped. Embossed stamps on front cover and title. Very good. Z1982 \$ 12
Former copy of noted chemist and mineralogist Frank Wigglesworth Clarke, with a signed card from the New England Genealogical Society bound in.
995. SCHRÖDER, Gottfried (editor). *Das Atom und die Neue Physik. Beiträge von Lincoln Barnett, Max Planck, Lise Meitner, Charles-Noël Martin*. (Berlin): S. Fischer, 1957. 8vo. 95 pp. Original blue printed wrappers. Very good. \$ 11
996. SCHUBARTH, Ernst Ludwig (1797-1868). *Repertorium der Technischen Literatur die Jahre 1823 bis Einschl. 1853 Umfassend. Zum Gebrauche der Königlich Technischen Deputation für Gewerbe... Herausgegeben im Auftrage des Königlich Ministeriums für Handel Gewerbe und Öffentliche Arbeiten*. Berlin: Deckerschen Geheimen Ober-Hofbuchdruckerei, 1856. 8vo. xvi, 1049, ads. [2] pp. Quarter brown leather with marbled paper sides, gilt-stamped spine title with raised spine bands; extremities worn, spine corners chipped, some marginal water-stains. Former library copy with the usual markings. Very good. Rare. Z1611 \$ 180
Schubarth has translated all the titles into German regardless of the original language of publication. Still a place where some odd and unexpected paper might be found relating to the technology of optics and optical instruments.
997. SCUDDER, Samuel Hubbard (1837-1911). *Catalogue of Scientific Serials of All Countries including the Transactions of Learned Societies in the Natural Physical and Mathematical Sciences, 1633-1876. Library of Harvard University, Special Publications I*. New York: Kraus Reprint, 1965. Facsimile reprint of the 1879 edition. 8vo. xii, 358 pp. Indexes. Maroon cloth, black printed paper spine label; label chipped, spine number rubbed. Ex-library copy with the usual markings. Very good. Z1613 \$ 30

998. **SCRIBA, Christoph J.** *The Autobiography of John Wallis F.R.S.* Reprinted from Notes and Records of the Royal Society of London, vol. 25, no. 1, June 1970. 8vo. pp. 17-46. 2 plates. Printed wrappers. Fine. [BH] \$ 5

999. **[SEELIGER, Hugo von (1849-1924)] Hans KIENLE** [ed.]. *Probleme der Astronomie. Festschrift für Hugo v. Seeliger dem Forscher und Lehrer zum Fünfundsiebzigsten Geburtstag. Mit 58 Abbildungen, 1 Bildnis und 3 Tafeln.* Berlin: Julius Springer, 1924. 8vo. iv, 475 pp. Gravure frontis. port. of Seeliger with facsimile autograph and tissue guard, 58 illustrations, 3 fold-out plates (reproductions of astronomical photographs). Quarter brown cloth and tips with marbled paper sides, gilt-stamped spine title, with original printed stiff wraps bound in; extremity edges rubbed. Ex-library copy, bookplate, embossed stamp on title. Very good. RARE. Z1616

\$ 125

This is quite an impressive anthology of 36 separate papers by the leading astronomers of the period. Nothing of direct biographical information on Seeliger but a great deal on his influence. Hugo von Seeliger (1849 - 1924), also known as Hugo Hans Ritter von Seeliger, was a German astronomer, often considered the most important astronomer of his day. He was elected an Associate of the Royal Astronomical Society in 1892, and President of the Astronomische Gesellschaft from 1897 to 1921. He received numerous honors and medals, including knighthood (Ritter), between 1896 and 1917.

*Pioneering Engineer Involved with the Development of Semiconductors
Working for Hughes Aircraft and His Own Company -
Pacific Semiconductors Inc.*

1000. **[Semiconductors] SAHAGUN, Armen N.** (1924-2006). A unique three-piece archive relating to the work of Armen N. Sahagun. There are two binders from American Micro Devices, no copies are found either for sale or in institutional collections. This contains some material of interest to computing and micro technology. Several fragmented names within the documents were checked to investigate the full names and see who they were and if there were any major contributions to computing or electronic technology. The Pacific Semiconductors Inc. [PSI] documents gave first name initials. These documents are not accounted for in the standard histories of computing or history of semiconductors or even the known biography of Shockley. There is an oral history recorded by Sanford Barnes (see below, entitled "Early Semiconductor Development at Hughes - Pacific Semi-TRW) - this resource offered the most relevance to these documents. See inventory description. Another "History of Semiconductors" written by Lukasiak and Jakubowski, Journal of Telecommunications and Information Technology, 2010, explained that there were elements of a history that would not be in their paper, that it was impossible to be comprehensive in their brief history, but they did touch upon all the known highspots as well as some of the issues dealt with in the Sahagun collection (namely wafers, silicon, Germanium [Ge]). As the first Silicon transistor was manufactured in 1955 (after Gordon Teal in 1954), the work at PSI seemed to be right in step with this effort but apparently not responsible for a huge break-through in advancing silicon and semiconductors. They were an industry leader and innovator and played a role, though it is not yet a much investigated history. The fact that Sahagun came through Hughes and the Si Ramo and Dean Woolridge were there and started their own company (leaving Hughes in 1953) as Ramo-Woolridge Corp., later merging with Thompson Products to

become TRW, this shows a high level of innovation being generated that later became an industry leader. In fact American Micro Devices is still extant, but they seem to be unaware of their own early history as the company web-page starts with incorporation in Sunnyvale, CA in 1969. Thus 1962-65 is very early for that company. In 1955 TRW acquires PSI.

IN SHORT THE RECORD HERE OF AMERICAN MICRO DEVICES IS THE EARLIEST KNOWN EXTANT DOCUMENTATION OF THEIR RESEARCH EFFORTS IN THE MID-1950S.

Pacific Semiconductors Inc. was a spin-off from Hughes Aircraft Co. and a pioneer in what became the Silicon Valley, the leading force in the computer-tech revolution that has defined our times. The PSI binder, in the ownership of Sahagun, is of more interest, especially since this is the sole surviving documentation from this period of the first start-up company coming out of Hughes that later developed the computer revolution; PSI itself lasted only a short while, but this was part of the characteristic of the times when tech companies bought out other companies for various reasons. Given the period of 1955-56, this is early material for PSI and yet it is also sparse in terms of what must have been a much larger volume of technical documents generated from the company, as such this is a sampling of saved sheets that were distributed among the staff. Most of the reports record data and observations taken during visits to either other competing firms (such Western Electric and General Electric) and notes collected from early conference proceedings (namely: First Annual Technical Meeting on Electron Devices, WDC). One of the most revealing parts of this binder is the in-house assessment of problems and solutions generated by Lawrence T. Lindgren, "Statement of Problems and Priorities," written January 4, 1956. This was a full treatment of the goings on at PSI in 1955 and its projected future of operations and improvement.

§ 5,750

AJ American Micro Devices, Inc. "Standard Rectifier Corporation". Phoenix, AZ. Contains: Sylvania Semiconductor Engineering Data, 1962-1965 [partly dated under adhesive labels]. Standard Rectifier Corp. [SRC] of Santa Ana, was purchased by American Micro Devices in 1962. [Independent Star-News October 14, 1962, Page 13]. These two binders contain some of the earliest recorded activities of American Micro Devices. One of the experiments describes "Dicing" - to cut gold plated wafers into dice involving silicon. Another procedure is "Etch" describing a "final etch [to] all diodes in order to achieve the proper conditioning of the silicon die surface and proper die diameter" [1965]. "Dallons First Lap" is a process for preparing the surface of a silicon wafer for phosphorus diffusion. For May 1, 1965, there is a Sylvania Semiconductor Division Silicon Power Rectifier Price List" - another series of documents are marked "confidential", including October 1963, AMD, Phoenix, a price schedule. In this section there are a lot of manuscript adjustments to the prices. "A silicon-controlled rectifier (or semiconductor-controlled rectifier) is a four-layer solid state current controlling device. The name "silicon controlled rectifier" is General Electric's trade name for a type of thyristor. The SCR was developed by a team of power engineers led by Robert N. Hall and commercialized by Frank W. "Bill" Gutzwiller in 1957." [Wikipedia] SCRs are used for control of high-voltage power. They are used for lamp dimming, regulators and motor control, or for welding machines. Not in Tomash; not listed in any bibliography about computing; not listed in WorldCat, thus no holdings in major academic libraries. Note (similar material): Sylvania

Electric Products, Inc. Semiconductor Division. Performance-tested transistor circuits; a manual of practical applications. Woburn, Mass., 1958 (54 pp.) - 2 copies known: Saint Louis Public Library; UC Davis.

B] Armen N. Sahagun (1924-2006). Semiconductor Development. Mimeographed sheets. Pacific Semiconductors, Inc., [Lawndale, or Culver City, CA], November 14, 1955 - July 12, 1956. ONLY KNOWN SURVIVING COPY. "Semiconductors are the foundation of modern electronics, including transistors, solar cells, light-emitting diodes (LEDs), quantum dots and digital and analog integrated circuits." [Wikipedia]. See: Peter Robin Morris, *A History of the World Semiconductor Industry*, IET, ISBN 0863412270, pp. 11-25; Lidia Łukasiak and Andrzej Jakubowski. "History of Semiconductors". *Journal of Telecommunication and Information Technology*: 3, (January 2010). Memos to Dr. Harper Q. North, President of Pacific Semiconductors, Inc., who built a plant in Torrance 1960 in what they called "Transistor Park." PSI was founded in 1954.

1001. **SENECA**. *De Naturales Quaestiones*. [VII; X - being parts I & II] *With an English translation by Thomas H. Corcoran*. Cambridge: Harvard University Press, (1971, 1972). Series: *Loeb Classical Library*, 450, 457. Two volumes. 12mo. xxix, 297; v, 312 pp. Folding plate, index. Cloth, dust-jackets. Fine set, like new. ISBN: 0674994957 / 0-674-99495-7; 0674995031 / 0-674-99503-1 \$ 35
1002. **SERGESCU, Pierre; Jean ROSTAND; Augustin BOUTARIC**. *Tableau du XXème siècle (1900-1933). II Les Sciences; Les Sciences mathématiques - Les Sciences biologiques - Les Sciences physico-chimiques. Ouvrage illustré de trente-deux gravures hors-texte*. Paris: Denoël et Steele, (1933). 8vo. 499 pp. 32 plates (portraits), index. Original printed wrappers; cover off, spine loose. As is. \$ 16
1003. **SERVISS, Garrett Putnam** (1851-1929). *Astronomy with an Opera-Glass, a Popular Introduction to the Study of the Starry Heavens with the Simplest of Optical Instruments. Eighth edition*. New York and London: D. Appleton, 1903. 8vo. vi, 158 pp. Illustrations, 20 maps, index. Original navy black and gilt-stamped cloth; some spotting on covers, pastedowns damaged due to tape being pulled away from sheets (re-colored). Rubber ownership stamp of Richard C. Bell. \$ 40 Originally published in 1888, this work supported amateur astronomy for those who owned modest equipment, such as an opera-glass. \$ 20
1004. **SERVISS, Garrett Putnam** (1851-1929). *Pleasures of the Telescope; an Illustrated Guide for Amateur Astronomers and a Popular Description of the Chief Wonders of the Heavens for General Readers*. New York: D. Appleton and Company, 1901. 8vo. viii, 200 pp. Illustrations, 26 star maps, index. Original navy blue black and gilt-stamped cloth; extremities rubbed, both pastedowns damaged by an adhesive tape pulled away (re-colored) - even so, the binding is handsomely preserved. Bookplate. Very good. \$ 125
- The author was an American astronomer, journalist, author and popularizer of astronomy. He also penned several science fiction books including *Edison's Conquest of Mars*, 1898.
1005. **SHAPIN, Steven**. *A Social History of Truth; Civility and Science in Seventeenth-Century England*. Chicago & London: University of Chicago Press, (1994). 8vo. xxxi, 483 pp. 11 figs., index; frequent ink underlining. Cloth, dust-jacket. Very good

1006. **SHARP, Abraham** (1651-1742) & **William CUDWORTH**. *Life and Correspondence of Abraham Sharp, the Yorkshire Mathematician and Astronomer, and Assistant of Flamsteed; with Memorials of His Family, and Associated Families*. London & Bradford: Sampson Low, Marston, Searle & Rivington & Thos. Brear, 1889. Tall 8vo. xvi, 342, ad [1] pp. Engraved frontis. with tissue guard, 9 unnumbered plates, 19 figs., indexes. Half vellum with marbled paper sides, gilt-stamped black morocco spine labels, t.e.g.; soiled, extremities worn. AUTHOR'S PRESENTATION INSCRIPTION: "The Rev. Addison Croft, M.A. With the Compliments of The Author," with pasted autograph "Yours Truly, W. Cudworth." Good +. Z1620

\$ 300

Sharp was a Yorkshire mathematician and astronomer, and Assistant to Flamsteed. Pages 1-215 are devoted exclusively to the life and correspondence of Abraham Sharp; the balance of the book, pp.216-317, to other members of his family with a final general chapter on Greenwich Observatory in the 1880's (pp.318-328, 2 figs.). The illustrations are mostly facsimiles of documents and genealogies. Nice association copy.

1007. **SHEPPARD, William Fleetwood** (1863-1936). *From Determinant to Tensor*. Oxford: Clarendon Press, 1923. 8vo. 127 pp. Index. Navy cloth, gilt spine. Bookplate of Professor William Edgar Patten (Cornell), Tangshan, China. Sheppard was a statistician and mathematician for his work in finite differences, interpolation and statistical theory.

\$ 15

1008. **SHIPTON, Clifford Kenyon** (1902-1973) & **James Eugene MOONEY**. *National Index of American Imprints through 1800. The Short-Title Evans*. [Volume One: A-M; Volume Two: N-Z]. No place given: American Antiquarian Society and Barre Publishers, 1969. 2 volumes. 4to. xxv, 548; xxi, 549-1028 pp. Red cloth, gilt-stamped green spine labels; labels rubbed. The short title edition of the definitive and standard reference to American imprints before 1800. Very good. Z1622 \$ 27

1009. [**SIEMENS, Werner von** (1816-1892)] **Ferdinand NEUREITER**. *Werner von Siemens. Gedenkrede in der Festversammlung des Elektrotechnischen Vereines in Wien am 13. December 1916. Sonderabdruck aus "Elektrotechnik und Maschinenbau"*. Vienna: Elektrotechnischen Vereines, 1916. 8vo. 44, [1] pp. Frontis. port. of Siemens with tissue guard. Printed wrappers. Fine. Z1990 \$ 20

1010. **SIMON, Gérard**. *Archéologie de la Vision; L'optique, le corps, la peinture*. Paris: Éditions du Seuil, (2003). Sm. 8vo. 290 pp. 14 illus., 11 figs., index. Printed wrappers. INSCRIBED BY THE AUTHOR TO DAVID C. LINDBERG. Fine. ISBN: 9782020580915 \$ 35

1011. **SIMONS, Lao Geneva** (1870-1949). *Bibliography of Early American Textbooks on Algebra, Published in the Colonies and the United States through 1850, together with a Characterization of the First Edition of Each Work*. New York: Scripta Mathematica, Yeshiva College, 1936. Series: Scripta Mathematica Studies, Number One. 8vo. 68 pp. Indexes. Navy cloth, gilt-stamped cover and spine titles; very lightly rubbed. Near fine. Z1624 \$ 45

1012. **SINGLETON, Charles S.** *Art, Science, and History in the Renaissance*. Edited by ... Baltimore and London: Johns Hopkins Press, (1970). Second printing. 4to. vii, 446 pp. Illus., index. Cloth, dust-jacket. Ink ownership signature of David C. Lindberg. Very good. \$ 15
Includes papers by E.H. Gombrich, D.W. Waters, George Boas, Frances A. Yates, Marshall Claggett, Stillman Drake, J.H. Hexter, and others. [BL2972]
1013. **[SITTER, Willem de (1872-1934)] E. de SITTER-SUERMONDT.** *William De Sitter: Een Menschenleven*. Haarlem: H.D. Tjeenk Willink & Zoon, 1948. 8vo. 116 pp. Light blue-gray paper boards, gilt-stamped cover and spine titles; extremities a bit browned. Previous owner's inked signature on flap Very good. RARE. Z1625 \$ 25
1014. **SLUGG, J. T.** *Reminiscences of Manchester Fifty Years Ago*. Manchester & London: J.E. Cornish & Simpkin, Marshall, 1881. 8vo. 16mo. vi, (vii), 355 pp. Fold-out frontis. map of Manchester in 1830, index; tiny hole on title. Rebound, preserving original green cloth, with black and gilt-stamped cover and spine titles; extremities rubbed. Scarce original printing. Z1626 \$ 50
1015. **SMART, James R.** *Modern Geometries*. Monterey, CA: Brooks/Cole Publ. Co., (1973). 8vo. [x], 271 pp. Figs., index. Cloth. Signature of owner inside front cover, pencil marginalia. Good. ISBN: 0818500514 [BH] \$ 5
1016. **SMILES, Samuel** (1812-1904). *Men of Invention and Industry*. New York: Harper & Brothers, 1885. 8vo. iv, (v), 382, ads. 14 pp. Index. Dark green cloth, gilt-stamped cover signature and spine title. Former library copy with the usual markings and defects, including several red ink stamps and library spine numbers rubbed out. Very good. Z1628 \$ 12
1017. **SMITH, David Eugene.** *A Source Book in Mathematics*. New York: McGraw-Hill, 1929. First edition. 8vo. xvii, 701 pp. Index. Dark red cloth; a touch frayed at head of spine, rubbed, some soiling to edges, but a solid copy. Bookplate of Professor William Edgar Patten (Cornell), Tangshan, China. \$ 35
"At its publication this book was somewhat of a landmark since it featured many original English translations of important parts of mathematical classics done by distinguished historians of mathematics" - Dauben no. 968.
1018. **SMITH, David Eugene.** *Rara Arithmetica: A Catalogue of the Arithmetics Written Before the Year MDCI with a Description of Those in the Library of George Arthur Plimpton of New York*. New York: Chelsea, 1970. Fourth Edition. 8vo. xviii, 725 pp. 9 plates (including frontis.), title illus., illustrations, indexes. Navy cloth, gilt-stamped spine title. This work includes a facsimile reprint of the 1847 London edition of Augustus de Morgan's Arithmetical Books. An excellent reprint of two classics. Fine. ISBN: 828401926 Z1630 \$ 45
1019. **SMITH, David Eugene** (1860-1944). *History of Mathematics. General Survey of the History of Elementary Mathematics. Special Topics of Elementary Mathematics*. New York: Dover, 1958. 2 vols. 8vo. xxii, 596; xii, 725 pp. Illus., figs., diagr., indexes. Printed wrappers. Very good. [BH] \$ 18

1020. **SMITH, David Eugene** (1860-1944). *Number Stories of Long Ago*. Washington, D.C.: The National Council of Teachers, n.d. [1965]? Series: Classics in Mathematics Education, 2. 8vo. xii, 152 pp. Reprinted from the 1919 first ed. Illus., index. White & brick printed cloth; rubbed. Ink ownership signature of Mrs. L. Silney. Good. [BH] \$ 4
1021. **SMITH, Roger**. *Popular Physics and Astronomy: An Annotated Bibliography*. Lanham and London: Scarecrow Press, (1996). Series: *Magill Bibliographies*. 8vo. 507 pp. Indexes. Red paper boards, gilt-stamped black cover label and spine title; tiny scuff to spine. A very thorough discussion of books on astronomy and physics for general readers from about 1900 to about 1990 with an emphasis on the literature after World War 2. Very good. ISBN: 081083149X Z1631 \$ 10
1022. **SMITH, William Allan, Frances Lawrence KENT & George Burder STRATTON** [eds.]. *World List of Scientific Periodicals Published in the Years 1900-1950. Third Edition*. New York & London: Academic Press & Butterworths Scientific Publications, 1952. Oversize 16mo. xvii, 1058 pp. Dark green cloth, gilt-stamped spine title; extremities rubbed, spine ends and corners have several small tears. Ex-library copy with the usual markings and defects. Over 24,000 primary citations. Good. Z1632 \$ 28
1023. **[SMITHSON, James** (1765-1829)] **William J. RHEES**. *James Smithson, and his Bequest*. Washington: Smithsonian Institution, 1880. Series: *Smithsonian Miscellaneous Collections*, 330. 8vo. viii, 68 pp. 9 plates, with tissue guards. Original printed wrappers; extremities chipped. Good. Z1992 \$ 12
1024. **Smithsonian Institution**. *Catalogue of Publications of the Smithsonian Institution. Corrected to June, 1862*. Washington: Smithsonian Institution, 1862. Series: *Smithsonian Miscellaneous Collections*. 8vo. vii, 44 pp. Index. Sewn; possibly missing original covers, pages worn. A very early advertising catalog for these publications. Very good. Rare. Z1633 \$ 15
1025. **Smithsonian Institution**. *Catalogue of Publications of Societies and of Periodical Works. Belonging to the Smithsonian Institution, January 1, 1866. Deposited in the Library of Congress*. Washington: Smithsonian Institution, 1866. 8vo. iv, 591 pp. Half tan morocco with corners and marbled paper sides, gilt-stamped spine title with raised spine bands, a.e. marbled; spine rubbed, inner hinges cracked. Former library copy with the usual markings and defects (included perf. stamps). Very good. Z1634 \$ 40
1026. **[Smithsonian Institution] William Jones RHEES** (1830-1907). *List of Publications of the Smithsonian Institution, 1846-1903. Part I. Complete List. Part II. Available for Distribution*. Washington: Smithsonian Institution, 1903. Series: *Smithsonian Miscellaneous Collections*. 1376. 8vo. [viii], 99 pp. Printed wrappers; spine chipped with pieces missing, soiled. Former library copy with the usual markings and defects. Good. Z1638 \$ 8
1027. **[SMYTH, William** (1797-1868)] **Alpheus S. PACKARD**. *Address on the Life and Character of William Smyth, D.D.* Brunswick: Joseph Griffin, 1868. Original printing. Small 4to. 37 pp. Frontis. port. of Smyth with tissue guard. Original printed wrappers; spine and bottom corner chipped. Very good. Z1993 \$ 20

1028. **SOHNCKE, L.A.** [ed.]. *Bibliotheca Mathematica. Verzeichniss der Bücher über die gesammten Zweige der Mathematik, als: Arithmetik, höhere Analysis, construierende und analytische Geometrie, Mechanik, Astronomie und Geodäsie, welche in Deutschland und dem Auslande vom Jahre 1830 bis Mitte des Jahres 1854 erschienen sind. Mit einem vollständigen Materienregister.* Leipzig: Wilhelm Engelmann, 1854. 4to. xviii, 388 pp. Index; foxed. Later green buckram, gilt-stamped spine title, with the original front wrapper preserved; cloth faded. Former library copy. Very good. RARE. Z1639 \$ 85
1029. **SOMERVILLE, Mary** (1780-1872) & **Martha SOMERVILLE.** *Personal Recollections, from Early Life to Old Age, of Mary Somerville. With Selections from Her Correspondence.* Boston: Roberts Brothers, 1874. 8vo. vi, 377 pp. Engraved frontisp. port. of Mary Somerville with tissue guard; pages marginally water-stained (text unaffected). Green cloth, black stamped cover, gilt-stamped spine; extremities rubbed, spine end has small tears to top. Book-label of J. C. Emery, Montpelier, Vermont. Good. Z1640 \$ 35
1030. **SOMMERFELD, Arnold** (1868-1951). *Vorlesungen über Theoretische Physik.* Wiesbaden: W. Klemm, (1949, 1947, 1948, 1950, 1952). 6 volumes. 8vo. XII, 276; XV, 375; XVI, 367; XV, 389; XIV, 374; XIII, 332 pp. Plates, figs., index. Various bound in green cloth, boards or vol. III in quarter green cloth; vol. IV spine torn. Ownership signature (vol. II) of D.G. Ubarg[?]. Very good. Complete set. [HL] \$ 150
1031. **SOMMERVILLE, Duncan M. Y.** (1879-1934). *Bibliography of Non-Euclidean Geometry, including the Theory of Parallels, the Foundations of Geometry, and Space of n Dimensions.* London: Harrison & Sons for the University of St. Andrews, 1911. 8vo. xii, 403, [1] pp. Indexes. Printed wrappers; front cover starting, covers a bit chipped at extremities. A work of remarkable and obscure scholarship. A must for anyone delving into this territory. In addition to the usual mathematical citations, it also includes works of speculation and imagination from people like H.G. Wells. The core bibliography of over 4,000 titles is chronological but the author and subject indexes are quite complete and extensive. Good +. Z1641 \$ 50
1032. **[Sotheran & Co.].** *A Catalogue of Superior Second-Hand Books in Literature, Science, and the Fine Arts...* London: Henry Sotheran, 1888. 8vo. 336, ads. 44 pp. A few illustrations. Blue cloth, gilt-stamped cover and spine titles; extremities rubbed with water-stains, inner hinges cracked with some tape repair. Former library copy with the usual markings (rear pocket removed). Fair. This issue is scarce. Z1335 \$ 40
1033. **[Sotheran & Co.].** [Nine science catalogs issued by this bookseller]. London: Henry Sotheran, 1918-1956. 8vo. Original printed wrappers and blue cloth. Very good. Z1336 \$ 180
- Includes: 1918. No. 770. *Catalogue of Rare and Standard Books on Exact and Applied Science...* London: Henry Sotheran, 1918. 8vo. 248 pp. Rebound in dark blue cloth with gilt-stamped cover and spine titles, original wrappers preserved; cloth lightly rubbed, else fine. 1923-1924. Nos. 783, 786, 789, 791. *Catalogue of Science and Technology, No. III. Annotated and Classified List of Rare and Standard Works on Exact and Applied Science. Parts II-V in one.* [Part II:

Mathematics; Part III: Including IV. Astronomy and Astrology, Chronology, and Geodesy, and V. Horology and Dialling; Part IV: Physics (Letters A-R); Part V: Physics (Letters S-Z)]. London: Henry Sotheran, 1923-24. 8vo. 488 pp. Rebound in dark blue cloth with gilt-stamped cover and spine titles, original wrappers preserved. Fine. 1927. No. 804. Annotated and Classified Catalogue of Rare and Standard Works on Astronomy... With an Appendix of the Works of Sir Isaac Newton, and His Commentators, as well as a Selection of Works from His Library. London: Henry Sotheran, 1927. 8vo. 240 pp. Rebound in dark blue cloth with gilt-stamped cover and spine titles, original wrappers preserved. Near fine. 1931. No. 828. Annotated and Classified Catalogue of Ancient and Modern Books on Exact and Applied Science. Part II, including IV. Astronomy; V. Dialling and Horology; VI. Physics. London: Henry Sotheran, 1931. 8vo. 153-292 pp. Original printed wrappers; spine ends chipped. Previous owner's inked signature on front cover. Good. 1935. No. 843. Annotated Catalogue of Works on Mathematics, Astronomy, and Physics. London: Henry Sotheran, 1935. 8vo. 160 pp. Original printed wrappers; spine worn and chipped. Good. 1956. No. 915. Annotated Catalogue of Works on Mathematics, Astronomy, and Physics. London: Henry Sotheran, 1956. 8vo. 128 pp. Original printed wrappers. Very good.

1034. **[Sotheran & Co.] Heinrich ZEITLINGER & Henry Cecil SOTHERAN** (1861-1928) [comps.]. *Bibliotheca Chemico-Mathematica: Catalogue of Works in Many Tongues on Exact and Applied Science, with a Subject-Index. With 127 Plates, containing 247 Portraits and Facsimiles. Volumes I & II.* London: Henry Sotheran, 1921. 2 volume set. 8vo. xii, 964 pp. Plates, index. Maroon cloth, gilt-stamped spine title; extremities rubbed and speckled, spine ends frayed. Former library copy with the usual markings and defects. Good. Z1642 \$ 400

1035. **South Kensington Museum; W. Spottiswoode**, President. *Conferences held in connection with the Special Loan Collection of Scientific Apparatus. 1876. Physics and mechanics.* London: Chapman and Hall, 1876. 8vo. xi, 420 pp. Original dark green black-lined cloth, gilt spine; rubbed, bottom spine worn. Presentation bookplate from the Committee, South Kensington Museum. Presentation copy. Scarce.

\$ 95

One section offers "On Time Measurers" (p. 336), but the section on mechanics written by Dr. Siemens offers the best illustrations: Newcomen's steam engine, Papin's steam engine, Jonathan Hull's steamboat, the "puffing billy" locomotive engine, and another locomotive called "rocket" by Stephenson & Co. 1829 - could hardly be thought of as a rocket design! Other apparatus include: the spectrum microscope, compass, limits of audible sound, astronomical photography, furnaces, electric telegraphs, etc.

1036. **South Kensington Museum; E. Frankland**, President. *Conferences held in connection with the Special Loan Collection of Scientific Apparatus. 1876. Chemistry, Biology, Physical Geography, Geology, Mineralogy, and Meteorology.* London: Chapman and Hall, 1876. 8vo. viii, 441 pp. Original dark green black-lined cloth, gilt spine. Presentation bookplate from the Committee, South Kensington Museum. Presentation copy. Very good +. Scarce.

\$ 85

Lots of topics included: Donkin on an ozone apparatus, Guthrie on cryohydrates and water of crystallization, Marey on an apparatus for "registering animal movements," Crum Brown on anatomical investigations of the semi-circular canals

of the ear, Francis Galton on means of combining various data in maps and diagrams, and more.

1037. **SPRAGUE, William Buell** (1795-1876). *Visits to European Celebrities*. Boston & New York: Gould and Lincoln & Sheldon, Lamport & Blakeman, 1855. 8vo. 305, ads. [6] pp. Facsimile autographs for most of the subjects. Dark brown cloth, embossed decorative covers, gilt-stamped spine title; extremities rubbed and stained, spine ends chipped, pages foxed. Included in the celebrities visited and the visits recorded are: Humboldt, Ritter, Encke, Olbers, Olinthus Gregory, Brewster and Thomas Dick. Very good. Z1647 \$ 32
1038. **[STADIUS, Joannes (1527-1579)] Jozef Alexandre Ulric ERNALSTEEN**. *Joannes Stadius, Leomouthesius, 1527-1579*. Brecht: Drukkerij L. Braeckmans, 1927. 8vo. 73, [1] pp. Frontis. port. of Stadius, plate. Printed wrappers; covers chipped with small pieces missing. Ownership signature and date of historian Lynn Thorndike, Feb. 26, 1940 on title. Good +. Scarce. Z1648 \$ 25
1039. **STEIN, Sherman**. *Archimedes: What Did He Do Besides Cry Eureka?* Washington D.C.: Mathematical Association of America, 1999. 8vo. x, 155 pp. Figs., index; hand written notes on a few pages. Printed wrappers. Very good. ISBN: 0883857189 / 0-88385-718-9 [BH] \$ 5
1040. **STEPHENSON, Henry Holder** [ed.]. *Who's Who in Science (International) 1912*. London: J. & A. Churchill, 1912. 8vo. xvi, 335 pp. Index. Red cloth, gilt-stamped cover and spine titles (with cover illus.); offsetting to covers, extremities a bit soiled. Previous owner's inked signature on front pastedown. In addition to the biographical abstracts, this work features numerous period advertisements in the front and rear pages. Very good. Z1654 \$ 10
1041. **STEVENSON, Edward Luther** (1858-1944). *Terrestrial and Celestial Globes: Their History and Construction, Including a Consideration of Their Value as Aids in the Study of Geography and Astronomy*. Mansfield Centre, CT: Martino, (n.d.). Two volumes bound in one. 8vo. xxvi, 218; xi, 291 pp. Numerous half-tone plates and illustrations (including frontis. for both vols.), indexes. Dark blue cloth, gilt-stamped red spine label. Facsimile reprint of the 1921 edition published for the Hispanic Society of America. Reprinted in an edition of 150 copies. Fine. ISBN: 1578980844 Z1655 \$ 90
1042. **STICKLAND, A.C.** (ed.). *The Physical Society. Reports on Progress in Physics. Volume XIX* (1956). London: The Physical Society, 1956. Tall 8vo. [iv], 367 pp. Figs. Green blind and gilt-stamped cloth. Very good. [HL] Contents includes: G.H.A. Cole, The Kinetic Theory of Monatomic Liquids at Ordinary Temperatures; The Proton Synchrotron, by J.P. Blewett; Radioactive Methods for Determining Geological Age, by L.H. Ahrens; Infra-red Absorption in Semiconductors, by H.Y. Fan; Aero-thermoacoustics (The Generation of Sound by Turbulence and by Heat Processes), by O.K. Mawardi; Some Aspects of Diffraction Theory and their Application to the Ionosphere, by J.A. Ratcliffe; Some Topics in Neutron Diffusion Theory, by J.H. Tait; New Lens Systems, by C.G. Wynne; The Macroscopic Theory of Irreversibility, by R.O. Davies. [HL] \$ 20

1043. **[STIFEL] HOFMANN, Joseph E.** *Michael Stifel (1487?-1567), Leben, Wirken und Bedeutung für die Mathematik seiner Zeit.* Wiesbaden: Franz Steiner Verlag 1968. Series: Sudhoffs Archiv, heft 9. 8vo. [vi], 42 pp. 20 figs., 8 plates, index. Blue printed wrappers. Bookplate of Barnabas Hughes. Very good. [BH] \$ 60
1044. **STILLWELL, Margaret Bingham.** *The Awakening Interest in Science during the First Century of Printing 1450-1550; An Annotated Checklist of First Editions Viewed from the Angle of their Subject Content. Astronomy - Mathematics - Medicine - Natural Science - Physics - Technology.* New York: The Bibliographical Society of America, 1970. Tall 8vo. xxix, 399 pp. Index. Red cloth. Ink ownership signature of David C. Lindberg. Very good.

\$ 28

Fifteen hundred copies printed.

Author's Copy of His Papers

1045. **STOKES, George Gabriel** (1819-1903). [Unique Collection of 74 offprints of the author's various papers]. London [etc.], 1842-1898. 2 volumes. 8vo. and 4to. Vol. I: Early half navy blue morocco, dark green cloth, five raised bands with gilt trim, gilt spine title, t.e.g. - bound for Heffer & Sons, Cambridge; joints tender. Vol. II: Early half navy blue morocco, dark green cloth, five raised bands with gilt trim, gilt spine title, t.e.g. - bound for Heffer & Sons, Cambridge; upper cover reattached with koza, otherwise in condition as per previous volume. Very good.

\$ 1,500

The author's personal copy of his collected, or rather, selected works published between 1842 and 1898. The proof of ownership lies with his signature on one paper and two other examples of papers that have "Author's Copy" printed on the paper itself.

The following is a complete inventory of the papers retained in this collection: [Octavo volume:] Address (1869), Address ... delivered at the Anniversary Meeting of The Royal Society on Tuesday, November 30, 1886; Address ... delivered at the Anniversary Meeting of The Royal Society on Tuesday, November 30, 1887, Address ... delivered at the Anniversary Meeting of The Royal Society on Tuesday, November 30, 1889; Address ... delivered at the Anniversary Meeting of The Royal Society on Tuesday, December 1, 1890; The Annual Address of the Victoria Institute (Chiefly on the subject of the Röntgen Rays), (1896) "Author's Copy"; Description of the Card Supporter for Sunshine Recorders adopted at the Meteorological Office (1880); Discussion of the Results of some Experiments with Whirled Anemometers (1881); Eighth Report of the Committee ... appointed for considering the best methods of recording the direct Intensity of Solar Radiation (1882); Note on the Determination of Arbitrary Constants which appear as Multipliers of Semi-convergent Series (1889); Notes on Hydrodynamics III - On the Dynamical Equations (1848); Note on the Axis of Instantaneous Rotation; Notes on Hydrodynamics IV - Demonstration of a Fundamental Theorem (1848); Notice of the Researches of the Late Rev. William Vernon Harcourt, on the Conditions of Transparency in Glass, and the connexion between the chemical constitution and optical properties of different glasses (1871); One a Certain Reaction of Quinine (1869); Note on a Graphical Representation of the Results of Dr. Adler Wright's Experiments on Ternary Alloys (1891); LIV. On a difficulty in the Theory of Sound (1858) [This section edited by the author with some marginalia]; On a Formula for Determining the Optical Constants of Doubly

Refracting Crystals (1846); On an Easy and at the same time Accurate Method of Determining the Ratio of the Dispersions of Glasses intended for Objectives (1878); On an Optical Proof of the Existence of Suspended Matter in Flames (1891); On a Phenomenon of Metallic Reflection (1876); On a remarkable Phenomenon of Crystalline Reflection (1885); On a Simple Mode of Eliminating Errors of Adjustment in Delicate Observations of Compared Spectra (1881); On Certain Movements of Radiometers (1877); On the Application of the Optical Properties of Bodies to the Detection and Discrimination of Organic Substances; On the Cause of the Light Border frequently noticed in Photographs just outside the Outline of a Dark Body seen against the Sky (1882); On the Change of Refrangibility of Light, and the exhibition thereby of the Chemical Rays (1853); On the Conduction of Heat in Crystals (1851); On the Constitution of the Luminiferous Aether (1848); On the Constitution of the Luminiferous Aether, viewed with reference to the phenomenon of the Aberration of Light; On the Discrimination of Organic Bodies by their Optical Properties (1864); On the Effect of Wind on the Intensity of Sound; On the Existence of a Second Crystallizable Fluorescent Substance (Paviini) in the Bark of the Horse-Chestnut (1857); On the Foci of Lines seen through a Crystalline Plate (1877); On the highest wave of uniform propagation (1883); On the Intensity of the Light reflected from or transmitted through a Pile of Plates (1862); On the Internal Distribution of Matter Which Shall Produce a Given Potential at the Surface of a Gravitating Mass (1867); On the Metallic Reflexion exhibited by Certain Non-Metallic Substances (1853); The Wilde Lecture. XV. On the Nature of the Röntgen Rays (1897); On the Nature of the Röntgen Rays; On the Optical Properties of a certain recently discovered Salt of Quinine (1852); On the Optical Properties of a Titano-Silicic glass (1875); On the Perception of Colour, being the Annual Address of the Victoria Institute (1898), "Author's Copy"; On the Perfect Blackness of the Central Spot in Newton's Rings, and on the Verification of Fresnel's Formulae for the Intensities of Reflected and Refracted Rays (1849); Professor Stokes' Lecture (1873) [folded at edges]; IV - On the Question of a Theoretical Limit to the Apertures of Microscopic Objectives (1878) [folding table]; On the Reduction and Oxidation of the Colouring Matter of the Blood (1864); Report on Double Refraction (1863); Report on Recent Researches in Hydrodynamics (1847); II - Mathematical Proof of the Identity of the Stream Lines obtained by Means of a Viscous Film with those of a Perfect Fluid moving in Two Dimensions (1898); Lectures to Science Teachers. The Absorption of Light and the Colours of Natural Bodies; The Annual Address of the Victoria Institute (1895) ["Author's Copy"] The Perception of Light; Dear Dr. Armstrong (1891); On the Bearing of the Phenomena of Diffraction on the Direction of the Vibrations of Polarized Light, with remarks ... (1859). ¶ [Quarto volume:] Discussion of a Differential Equation relating to the Breaking of Railway Bridges (1849); On Some Cases of Fluid Motion (1844); Supplement to a Memoir on Some Cases of Fluid Motion [SIGNED BY G.G. STOKES] (1847); XXX. On the Change of Refrangibility of Light (1852); . XVI. On the Change of Refrangibility of Light - No. II (1853); On the Colours of Thick Plates (1851); On the Communication of Vibration from a Vibrating Body to a surrounding Gas (1868); On the Composition and Resolution of Streams of Polarized Light from Different Sources (1852); On the Critical Values of the Sums of Periodic Series (1848); On the Discontinuity of Arbitrary Constants which appear in Divergent Developments (1858); Supplement to a paper, On the Discontinuity of Arbitrary Constants which appear in Divergent Developments (1868); On the Dynamical Theory of Diffraction (1850); On the Effect of the Internal Friction of Fluids on the Motion of Pendulums (1851); On

the Formation of the Central Spot in Newton's Rings Beyond the Critical Angle (1849); On the Long Spectrum of Electric Light.(1862); On the Numerical Calculation of a Class of Definite Integrals and Infinite Series (1850); On the Steady Motion of Incompressible Fluids (1842); On the Theory of Certain Bands Seen in the Spectrum (1848); On the Theory of Oscillatory Waves (1847); On the Total Intensity of Interfering Light (1852); On the Variation of Gravity at the Surface of the Earth (1849); and the final paper is communicated, with the addition of two notes, by Stokes, being Herbert Tomlinson's The Coefficient of Viscosity of Air (1886).

Sir George Gabriel Stokes, 1st Baronet Fellow of the Royal Society (1819 -1903), mathematician, physicist, politician and theologian, was born in Ireland. He spent his entire career at University of Cambridge, serving as the Lucasian Professor of Mathematics from 1849 until his death in 1903. "Stokes made seminal contributions to fluid dynamics (including the Navier–Stokes equations), optics, and mathematical physics (including the first version of what is now known as Stokes' theorem). He was secretary, then president, of the Royal Society.... Stokes' original work began about 1840, and from that date onwards the great extent of his output was only less remarkable than the brilliance of its quality." - Wikipedia.

1046. **STOKES, George Gabriel** (1819-1903); **Joseph LARMOR** [ed.]. *Memoir and Scientific Correspondence of the Late Sir George Gabriel Stokes. Selected and Arranged by Joseph Larmor. Volume I.* Cambridge: Cambridge University Press, 1907. Vol. I only of a 2 volume set. **FIRST EDITION.** 8vo. xii, 475 pp. Gravure frontis. port. of Stokes with facsimile autograph, 2 additional plates, index; some handwritten pen corrections. Green cloth, gilt-stamped spine title; extremities rubbed, front hinge a bit cracked (still strong and tight). Very good. The original printing is quite scarce. Z1656

\$ 100

This is the biographical portion of the 2 volume set.

1047. **STOUGH, Charlotte L.** *Greek Skepticism; a study in epistemology.* Berkeley & Los Angeles: University of California Press, 1969. 8vo. 167 pp. Index. Cloth, dust-jacket; jacket extremities worn. Ink ownership signature of David C. Lindberg. Very good. ISBN: 0520016041 / 0-520-01604-1

\$ 25

Theory of Sound

1048. **STRUTT, John William, 3rd Baron RAYLEIGH** (1842-1919). *The Theory of Sound. Second edition revised and enlarged.* London & New York: Macmillan, 1894. 2 volumes. 8vo. xiv, 480; xvi, 504 pp. Index. Original olive green blind and gilt-stamped cloth; bottom corner bumped (v. II). Near fine. [HL]

\$ 175

Rayleigh was awarded the Nobel Prize for physics in 1904 of the discovery of argon gas. In 1871 " a serious attack of rheumatic fever occurred ... and as a recuperative measure Strutt undertook a trip up the Nile. It was on this journey that the Theory of Sound had its genesis, although the first volume was not completed and published until 1877 ... He then began serious experimental work in the laboratory attached to the manor house. He has already developed considerable theoretical interest in radiation phenomena and had published papers on acoustics and optics in the late 1860's and early 1870's." - *DSB*, XIII, p. 101.

1049. **STRUTT, John William, 3rd Baron RAYLEIGH** (1842-1919). *John William Strutt, Third Baron Rayleigh. By his son Robert John Strutt ...* London: Edward Arnold, 1924. 8vo. xi, 403, 16 pp. Frontis. port., 4 plates, index. Original maroon blind and gilt-stamped cloth. Very good. [HL] \$ 40
1050. **STRUTT, John William, 3rd Baron RAYLEIGH** (1842-1919). *Scientific Papers*. [6 volumes, complete]. Cambridge: University Press, 1899-1920. 6 volumes. Tall 8vo. 6 plates, index. Original maroon blind and gilt-stamped cloth; lightly rubbed. Near fine set. \$ 450
- First Collected edition. Strutt is the eminent English physicist who, with William Ramsay, discovered argon, an achievement for which he earned the Nobel Prize for Physics in 1904. Rayleigh scattering is named for him, being the phenomena he discovered to explain why the sky is blue. The Rayleigh wave existence was also predicted by Strutt.
1051. [**STRUTT, John William, Third Baron Rayleigh** (1842-1919)] **Robert Bruce LINDSAY**. *Lord Rayleigh - The Man and His Work*. Oxford, et al.: Pergamon Press, (1970). FIRST EDITION. Series: Selected Readings in Physics. Men of Physics. 8vo. viii, 251 pp. Index. Pictorial cloth; a bit rubbed. Former library copy with the usual markings and defects, including spine number and rear pocket removal. Most of the book consists of reprints of Rayleigh's most important papers. Good. Scarce. Z1657 \$ 45
1052. **SWETZ, Frank J.** *The Sea Island Mathematical Manual: Surveying and Mathematics in Ancient China*. University Park, PA: Pennsylvania State University Press, (1992). 8vo. xi, 73 pp. Figs., index. Printed wrappers. Very good. ISBN: 0271007990 / 0-271-00799-0 [BH] \$ 4.95

The Early Development of Photography

1053. **TALBOT, William Henry Fox** (1800-1877). *Improvements in Coating or Covering Metals with other Metals, and in Colouring Metallic Surfaces [and] Improvements in Photography. Contained in: The Chemical Gazette, or, Journal of Practical Chemistry, in all its applications to pharmacy, arts and manufactures*. London: Richard & John E. Taylor, 1842-44. Two volumes. 8vo. iv, 763; [2], 558 pp. Half brown calf over marbled boards, gilt-stamped spine titles; joints rubbed. Bookplates and signatures of George Dawson Coleman. Very good. \$ 800
- FIRST EDITION. These two volumes are primarily devoted to the practical and commercial aspects of manufacturing chemistry, and contain many important articles, the most notable being two patents for photography by William Henry Fox Talbot and one by Antoine François Jean Claudet (1797-1867). Fox Talbot's patents concern Improvements in Coating or Covering Metals with other Metals, and in Colouring Metallic Surfaces (Vol. I, pp. 195-6), and *Improvements in Photography* (Vol. II, pp. 55-6). Claudet's extensive patent covers *Improvements in the Process and Means of obtaining the Representation of Objects of Nature and Art* (Vol. II, pp. 500-4). Fox Talbot is remembered as the discoverer of the negative-positive process of photography; Claudet was the first to produce daguerreotypes in England.

Additionally, there are articles submitted by Berzelius, Soubeiran, Liebig and Orfila. Pyrogallic acid, as described in Liebig's paper, was subsequently used as a photographic developing agent. Also contained here is an article on the preparation of various ethers, of which sulfuretted ether became the choice of early anesthesiology. Jöns Jacob Berzelius (1779-1848) was a Swedish chemist who worked out the modern technique of chemical formula notation, and is together with John Dalton, Antoine Lavoisier, and Robert Boyle considered a father of modern chemistry. Eugène Soubeiran (1797-1859) was a renowned French scientist who served as chief pharmacist at the Pitié-Salpêtrière Hospital. He was one of three researchers who discovered chloroform independently of one another.

☼ Eder, *History of photography*, p. 330; Gernsheim, *The history of photography*, pp. 61-70, 89-90.

1054. **TANCOCK, Ernest Osborne.** *The Elements of Descriptive Astronomy.* Oxford: Clarendon Press, 1924. Second edition. 12mo. 158 pp. 16 plates, 23 figures or diagrams, index. Navy blue gilt-stamped cloth. Bookplate. \$ 28
 "Mr. Tancock is the secretary of the committee appointed by the British Astronomical Association for the purpose of encouraging the teaching of astronomy in schools. This book is based on courses of lessons which he gave to junior forms."
1055. **TANI, Yukio.** *The Magic Calculator; The Way of the Abacus. Translated by Saki Mochizuki and LeRoy Weed.* San Francisco: Japan Publications Trading Co., (1968). Fourth printing. 8vo. 64 pp. Illus. Printed wrappers; covers rubbed. Very good. [BH] \$ 8
1056. **THOM, Emma Mertins** (1883-1957). *Bibliography of North American Geology, 1929-1939.* [Part 1. Bibliography; Part 2. Index]. Washington: United States Government Printing Office, 1944. Series: United States Department of the Interior, Geological Survey, Bulletin 937. 8vo. ii, 1546 pp. Red cloth, gilt-stamped spine title. Cloth issue. Very good. Z1663 \$ 22
1057. **THOMAS DE STRASBOURG.** *Thoma Ab Argentina, Eremitarum Diui Augustini Prioris Generalis, Qui floruit anno Christi 1345. Commentaria in III. Libros Sententiarum, Hac postrema editione a mendis, quibus paſſim ſcabebant, repurgata.* Ridgewood, NJ: The Gregg Press, 1965. Facsimile. Two parts bound together. Tall 4to. [18], 202; 217, [1] ff. Red cloth. Very good +. \$ 200
 Original edition was issued in Venice, 1564.
1058. **THOMAS, Morley K.** [comp.]. *A Bibliography of Canadian Climate, 1763-1957.* Ottawa: Meteorological Branch, Department of Transport, 1961. 8vo. 114 pp. Indexes. Printed wrappers. Former library copy with the usual markings. Very good. Z1664 \$ 9
1059. **THOMPSON, Sir Benjamin, Count of Rumford** (1753-1814). *Essays, Political, Economical, and Philosophical. A new edition.* Vol. III. London: Printed by Luke Hanford ... for T. Cadell, Jun. and W. Davies, 1802. 8vo. xi, [16], 498, ads [2] pp. 7 engraved plates, numerous woodcuts. Original full gilt-ruled calf; spine heavily restored, extremities worn, hinges neatly mended. Bookplates of James T. Bland,

and Anne Willan. Very good.

\$ 350

This is an early text on the kitchen and all heating implements relating to equipping the room for usage. Rumford, the noted physicist and inventor, describes kitchen fire-places, the roaster, dripping-pan, heating an iron oven, construction of boilers, steam cooking, warming rooms, saucepan heaters, portable furnaces, tea-kettles (p.301), kitchen utensils for the poor, "account of a concealed kitchen," chimneys, warm bathing, management of fires, use of steam as a vehicle for transporting heat, etc. Thompson is known also as the inventor of the coffee percolator (1806/1812), published in a later volume.

PROVENANCE: Anne Willan (born 1938) is a recognized authority on French cooking, with more than 35 years of experience as a cooking teacher, cookbook author and food columnist. She is the founder of the prestigious *Ecole de Cuisine La Varenne*, which operated in Burgundy France from 1991 until 2007.

1060. **[THOMPSON, Sir Benjamin, Count Rumford (1753-1814)] William S. BARNES.** *The Life of Count Rumford, a Lecture Given in the Lyceum Course of 1872-3, at Woburn, Mass., January 21st, 1873.* Woburn: John L. Parker, 1873. Original printing. 8vo. 34 pp. Original printed wrappers. Very good. RARE. Z1997 \$ 45
1061. **[THOMPSON, Sir Benjamin, Count Rumford (1753-1814)] Richard Walden HALE.** *Some Account of Benjamin Thompson, Count Rumford.* (Boston): (Addison C. Getchell & Son), 1927. 8vo. 26 pp. Blue printed wrappers. A short biography of Count Rumford created by Hale and intended as a Christmas memento. Includes a mounted color portrait of Count Rumford loosely place in. Near fine. Z1998 \$ 20
1062. **THOMPSON, John N.** *The Coevolutionary Process.* Chicago and London: University of Chicago Press, (1994). First printing. 8vo. xi, 376 pp. Photos, illustrations, figs., tables, index. Navy cloth, gilt-stamped spine title. Fine. RARE IN CLOTH. ISBN: 0226797597 \$ 90
1063. **[THOMPSON, Silvanus Phillips (1851-1916)]. Jane Smeal THOMPSON & Helen G. THOMPSON.** *Silvanus Phillips Thompson, D.Sc., LL.D., F.R.S.: His Life and Letters. With Illustrations.* New York: E.P. Dutton, 1920. First printing. 8vo. ix, 372 pp. 12 plates (including frontis. port. of Silvanus Thompson with tissue guard), index. Red cloth, blind stamped cover signature and gilt-stamped spine title; tiny hole punch on front cover, else very good. Scarce. Z1665 \$ 45
1064. **THOMSON, Sir JJ.** *Beyond the Electron. A lecture given at Girton College on 3 March 1928.* Cambridge: University Press, 1928. 8vo. 42 pp. Original blue-green paper wraps; heavily chipped, basically no spine. Library label on upper cover affixed with plastic clear tape. As is. \$ 10
1065. **THOMSON, Sir JJ.** *Recollections and Reflections.* London: G. Bell and Sons, 1936. 8vo. viii, 451 pp. Frontis., 9 plates, index; title reinforced with kozo repair. Blue gilt-stamped cloth; punctured, heavily rubbed. Good. Ownership inscription of A. Bryant, Newlands, Lings-Langley, 1938 and G. R. Reid, Westcott, 1947. [HL] \$ 12

1066. **THOMSON, J.J.** *Elements of the Mathematical Theory of Electricity and Magnetism. Third edition.* Cambridge: University Press, 1904. Sm. 8vo. vi, [2], 544 pp. 134 figs., index. Original light green blind and gilt-stamped cloth; a bit rubbed. Very good. [HL] \$ 25
1067. [**THOMSON, William, Baron Kelvin of Largs** (1824-1907)] **Alexander RUSSELL.** *Lord Kelvin: His Life and Work.* London & New York: T.C. & E.C. Clark & Dodge, [1912]. Series: *The People's Books.* Small 8vo. vii, (viii), 9-92, (93-94), ads. [2] pp. Frontis. port. of Lord Kelvin. Green cloth, black stamped cover and spine titles. Very good. Z1669 \$ 20
1068. **THROWER, Norman J.W.** (ed.). *The Compleat Plattmaker; Essays on Chart, Map, and Globe Making in England in the Seventeenth and Eighteenth Centuries.* Berkeley: University of California Press, 1978. 8vo. xvii, 141 pp. Illus., index. Tan cloth. Fine. ISBN: 0520035224 \$ 15
- Edited by the noted scholar and former head of the Clark Library, UCLA, there are papers sea charts, maps of the English colonies in North America, John Seller and the chart trade in 17th Century England, Edmund Halley and thematic geocartography, etc. Contents: 1: Geographie Is Better Than Divinitie: Maps, Globes, and Geography in the Days of Samuel Pepys (by Helen M. Wallis). 2: Manuscript and Printed Sea Charts in Seventeenth-Century London: The Case of the Thames School (by Thomas R. Smith). 3: Mapping the English Colonies in North America: The Beginnings (by Jeannette D. Black). 4: John Seller and the Chart Trade in Seventeenth Century England (by Coolier Verner). 5: English Cartography, 1650-1750: A Summary (by David A. Woodward). 6: Edmond Halley and Thematic Geo-Cartography (by Norman J. W. Thrower).
1069. **TIETZE, Heinrich** (1880-1964). *Famous Problems of Mathematics. Solved and unsolved mathematical problems from antiquity to modern times. Authorized translation from the Second (1959) revised German edition. Edited by Beatrice Kevirt Hofstadter and Horace Komm.* Baltimore: Graylock Press, 1965. 8vo. xvi, 367 pp. 18 plates (some color), numerous figs., index. Brick-red gilt-stamped cloth; corner bumped. Former ink ownership signature of Mrs. L. Silney. Very good. [BH] \$ 10
1070. **TILLO, Alexei Andrejewitsch von** (1839-1899). *Generalregister der Jahrgänge 1-25 der Vierteljahrsschrift der Astronomischen Gesellschaft. Supplementheft zur Vierteljahrsschrift der Astronomischen Gesellschaft Jahrgang 29.* Leipzig: Wilhelm Engelmann, 1895. 8vo. [i], 103 pp. Bound in modern black cloth with printed paper label on upper cover (a facsimile of the title-page). Fine. Z1671 \$ 30
1071. **TODD, David Peck** (1855-1939). *A New Astronomy.* New York: Cincinnati, Chicago: American Book Company, 1926. Sm. 8vo. 480 pp. Color frontis., 5 color plates and numerous illustrations, index; some minor pencil marks. Original pictorial blue cloth. Bookplate. Very good. \$ 7

Todd was born in New York, studied at both Columba and Amherst (graduated Phi Beta Kappa in 1875). He designed and erected several observatories and was chief astronomer at the Lick Observatory during the 1882 transit of Venus for which he made the first photographs to record the event.

1072. **TODHUNTER, Isaac** (1820-1884). *A History of the Mathematical Theories of Attraction and the Figure of the Earth: From the Time of Newton to that of Laplace*. New York: Dover, (1962). Two vols. in one. Reprint of the two volume 1873 Macmillan edition. 8vo. xxxvi, 476, [2], 508 pp. Index. Blue cloth, gilt-stamped spine title, dust-jacket; jacket rubbed, else fine. Z1673

§ 135

Dirk Brouwer's copy. Brouwer was the recipient of the Bruce Medal in 1966. From the website: Born in the Netherlands, Dirk Brouwer received his Ph.D. in 1927 under Willem de Sitter at the University of Leiden and then joined the faculty at Yale University, where he worked in celestial mechanics with Ernest W. Brown. While still a student he determined the mass of Titan from its influence on other Saturnian moons. From 1941 to 1966 he served as director of the Yale University Observatory and editor of the *Astronomical Journal*. Brouwer developed general methods for finding orbits and computing errors and applied these methods to comets, asteroids, and planets. He was one of the first to use electronic computers for astronomical computations. He computed the orbits of the first artificial satellites and from them obtained increased knowledge of the figure of the earth. His book, *Methods of Celestial Mechanics*, taught a generation of celestial mechanicians. He also redetermined astronomical constants.

“Classification of all Plants into Genera”

1073. **TOURNEFORT, Josephi Pitton de** (1656-1708). *Institutiones Rei Herbariae*. Paris, Typographia Regia, 1719. Three volumes (1 text and 2 plate volumes.). 4to. [vi], 695, [x], 58, [2 blank] pp. [1], 252; [1], 253-489 ff. Engraved title-vignette and chapter heading, two engraved titles (for the plate volumes), and 489 engraved plates, 4 indices. Original mottled paper over boards with ca. 20th century three-quarter calf; extremities worn, internally very good. Bookplates and ink signatures (on title-pages) of Robert Sonnenschein, M.D. [1935, Chicago, IL].

§ 1,250

Third edition* with an appendix by the French naturalist and physician Antoine de Jussieu (1686-1758) and *Corollarium Institutionum Rei Herbariae in quo plantae 1356 munificentia Ludovici Magni in orientabilibus reg. observatae recensentur...* (58 pp.). After studying medicine at the University of Montpellier, Jussieu travelled through Spain, Portugal, and southern France, building a large collection of plants. At the year of Tournefort's death in 1708 Jussieu succeeded Tournefort as Director at the *Jardin du Roi*, later named the *Jardin des Plantes*. This edition of Tournefort's is Jussieu's most important work. He became a member of the *Académie des Sciences* as a result of his work.

“Tournefort's significance lies in the fact of having classified all plants into genera. Hundreds of the generic names coined or accepted by him were later adopted by Linnaeus and are in use today.”

The significance of Tournefort to eighteenth-century botany, and to that of today, lies in his classification of all plants into genera... The *Institutiones* (1700) was mainly a translation of the *Eléments de botanique* into Latin; and the *Corollarium Institutionum Rei Herbariae* (1703) was a supplement written on Tournefort's return from travels to the Near East, describing 1350 genera which he had found.

The edition of 1719 is a reprint of these two works but made substantive by the addition of an appendix by Antoine de Jussieu.

The engravings were drawn by Claude Aubriet (ca.1665 or 1651–1742), the French illustrator and botanical artist, born at Chalons-sur-Marne, who had earlier worked on Tournefort's celebrated *Elémens de botanique*, 1694. "... he accompanied Tournefort and Andreas von Gundelsheimer on an expedition to the Middle East. There he made drawings of historical sites and the region's flora. After his return to Paris, Aubriet continued his work with the botanists at the Jardin du Roi." [Wikipedia]. "These illustrations, made no doubt under Tournefort's direct supervision, are remarkable for the accuracy of their dissections." Blunt, p. 124.

☼ Hunt 450 (3rd edition); Staffeu & Cowan, 14.783; Nissen BBI, 1977.

1074. **TRAVAGLIA, Pinella.** *Magic, Causality and Intentionality. The doctrine of rays in al-Kindi.* Sismel: Edizioni del Galluzzo, 1999. Series: *Micrologus' Library*, 3. Sm. 8vo. 176 pp. Index. Printed wrappers. Fine. Very scarce. Ink ownership signature of David C. Lindberg. ISBN: 8887027412 \$ 45
1075. **TRYON, George W., Jr.** (1838-1888). *List of American Writers on Recent Conchology: With the Titles of their Memoirs and Dates of Publication.* New York, et al.: Ballière Brothers, 1861. 8vo. 68 pp. Black cloth, gilt-stamped cover title with blind stamped decorative borders; extremities worn, spine nearly chipped off (still tightly bound). Generally very good. Z1676 \$ 40
1076. **TUCKERMAN, Alfred** (1848-1925). *Bibliography of the Chemical Influence of Light.* Washington: Smithsonian Institution, 1891. Series: Smithsonian Miscellaneous Collections, 785. 8vo. iii, 22 pp. Printed wrappers; wrappers stained and chipped. Fair. Z1678 \$ 28
1077. **TUPLIN, C.J. & T.E. RIHLL** (editors). *Science and Mathematics in Ancient Greek Culture.* Oxford: Oxford University Press, (2002). 8vo. xvi, 379 pp. Illus., index. Black gilt-stamped cloth. Fine. ISBN: 0198152485 / 0-19-815248-5 [BH]\$ 165
1078. **TURNBULL, H.W.** *Theory of Equations. Edinburg, Scotland: Oliver and Boyd, 1957. Fifth edition, revised, reprinted.* 12mo. xii, 166 pp. 25 figs., index. Navy blue gilt-stamped cloth. Library stamps on inside front cover and title page blacked out. Generally very good. [BH] \$ 5
1079. **TURNER, Herbert Hall** (1861-1930) **F.A. BELLAMY.** & **Ethel F.B. BELLAMY.** *Herbert Hall Turner: A Notice of his Seismological Work.* Oxford: University Observatory, [1931]. 8vo. 23 pp. Port. plate of Turner placed loosely in with tissue guard. Printed wrappers. Rubber stamps on front cover (Dudley Observatory, Albany, NY). Near fine. Z2002 \$ 20
1080. **[TURNER, Herbert Hall** (1861-1930)]. **Royal Astronomical Society.** "Herbert Hall Turner, 1861-1930." Offprint from: *Proceedings of the Royal Society, A*, Vol. 133. London: Harrison and Sons, [ca. 1931]. (255 x 175 mm). ix pp. Frontis. port. of Turner with facsimile signature. Self-wraps. Small rubber stamp on front cover. Very good. Z2001 \$ 10

1081. **University of Chicago.** *The Report of the President. Publications of the Members of the University. The Decennial Publications, first series, volume II.* Chicago: University of Chicago Press, 1904. 4to. [iii], 185 pp. Index. Maroon cloth, gilt-stamped cover and spine titles; cloth a bit stained. Former library copy with the usual markings and defects. Astronomy & Astrophysics featured on pp.83-101 (including Hale, Burnham, Frost, Laves, Moulton, Ritchey, Ellerman, Parkhurst, Wadsworth, See, Mitchell, Reese & Wright). Very good. Z1682 \$ 28
1082. **University of Edinburgh.** *Catalogue of the Printed Books in the Library of the University of Edinburgh.* Edinburgh: At the University Press, T. and A. Constable, 1918-1923. 3 Vols. Oversize 8vo. x, 1383; 1405; vi, 1334 pp. Navy cloth, gilt-stamped cover emblem and spine title; extremities rubbed, title of Vol. I has been repaired using archival tape, inner hinge of Vol. II a bit cracked. Ex-library copy with the usual markings and defects, including remainder marks and blind stamp on each title. Massive bibliographic work, listing holdings alphabetically by author, with author, short title, place, date, and size. Very good. Z1683 \$ 75
1083. **VALENS, Evans G.** *The Number of Things. Pythagoras, Geometry and Humming Strings.* New York: E.P. Dutton, (1964). Fifth printing, 8vo. 189 pp. Figs., index. Red black-stamped cloth, dust-jacket; jacket torn at upper margin. Former ink ownership signature of Mrs. L. Silney. Very good. [BH] \$ 12
1084. **VALENTINER, W.** (1845-1931) [ed.]. *Handwörterbuch der Astronomie unter Mitwirkung von Prof. Dr. E. Becker-Strassburg, et al.. Dritter Band, Zweite Abtheilung. Mit 42 Abbildungen im Texte.* Breslau: Eduard Trewendt, 1901. Series: *Encyklopädie der Naturwissenschaften.* 8vo. xi, 611 pp. Illustrations, tables, charts. Glossy green paper boards, gilt-stamped spine title; extremities severely chipped. Former library copy with the usual markings and defects. Articles of special interest for reference include: "Sonne" by N. Herz; "Sternbilder" by Valentiner, which includes lists of double stars, nebula, star clusters, and variable stars with some cartographic history for each constellation; "Sterncataloge und -Karten" by F. Ristenpart, for which the treatment of star charts is quite disappointing, but the list of modern star catalogs is excellent. Good +. Z1684 \$ 85
1085. **VAN HELDEN, Albert.** *The Invention of the Telescope.* Philadelphia: American Philosophical Society, June 1977. Series: Transactions of the American Philosophical Society, vol. 67, part 4. 4to. 67 pp. 2 illus.; some ink underlining. Original printed wrappers. Ownership signature of David C. Lindberg. Very good (noting underlining). ISBN: 0871696746/0-87169-674-6 \$ 18
1086. **VAN HELDEN, Albert; Istituto e Museo di Storia della Scienza (Italy).** *Catalogue of Early Telescopes.* [Florence]: Giunti, (1999). 27 cm. 111 pp. Illus. (some color). Printed wrappers; minimal wear. Burndy bookplate. Otherwise fine. Rare. \$ 125
1087. **VAN HELDEN, Albert.** *Measuring the Universe; Cosmic Dimensions from Aristarchus to Halley.* Chicago & London: University of Chicago Press, (1985). 8vo. viii, 203 pp. Index. Cloth, dust-jacket. Ink ownership signature of David C. Lindberg. Fine. \$ 30

"*Measuring the Universe* is the first history of the evolution of comic dimensions, from the work of Eratosthenes and Aristarchus in the third century B.C. to the efforts of Edmund Halley..." [BL2982]

1088. **VAN NOSTRAND.** *A Classified Catalogue of American and Foreign Scientific Books, for Sale by D. Van Nostrand, Publisher and Importer. Fifteenth Edition, with Index to Authors.* New York: D. Van Nostrand, (1872). 8vo. 77, ads. [3] pp. Printed wrappers; a bit worn and soiled. Very good. Z1191 \$ 15
1089. **VAN NOSTRAND.** *A Classified Catalogue of American and Foreign Scientific Books, for Sale by D. Van Nostrand, Publisher and Importer. Thirtieth Edition.* New York: D. Van Nostrand, (1887). 8vo. 64, ads. [16] pp. Printed wrappers; spine a bit worn. Very good. Z1192 \$ 15
1090. **VAN NOSTRAND.** *Catalogue of the Scientific Publications and Importations of the D. Van Nostrand Company, Including Weale's Rudimentary Series.* New York: D. Van Nostrand, 1899. 8vo. 34, ads. [30] pp. Printed wrappers; bottom spine end worn, front cover starting. Very good. Z1193 \$ 15
1091. **VAN NOSTRAND.** *Monthly Record of Scientific Literature. Issued on the 15th of Each Month. D. Van Nostrand, Publisher and Importer of Scientific, Military and Naval Works.* New York: D. Van Nostrand, 1877-1910. 42 bookseller catalogs. Vol. 5, Nos. 8-12; Vol. 6, Nos. 1-7, 9-10, 12; Vol. 7, Nos. 2-9, 11-12; Vol. 8, Nos. 1-2, 8-12; Vol. 9, Nos. 1-2, 4-8; Vol. 15, No. 11; Vol. 19, Nos. 1, 8; Vol. 32, No. 8. 8vo. Multiple paginations. Self-wraps; wrappers worn. Good. Z1194 \$ 100
1092. **VARADARAJAN, V.S.** *Algebra in Ancient and Modern Times.* (Providence): American Mathematical Society & Hindustan Book Agency, 1998. Series: Mathematical World, vol. 12. 8vo. xii, 142 pp. Index; ink marginalia pp. 44, 47. Printed wrappers. Very good. ISBN: 082180989X / 0-8218-0989-X [BH] \$ 18
1093. **VERWORN, Max.** *Die Mechanik des Geisteslebens.* Leipzig: B.G. Teubner, 1907. Series: *Aus Natur und Geisteswelt. Sammlung wissenschaftlich-gemeinverständlicher Darstellungen*, no. 200. Sm. 8vo. 104 pp. 11 figs. Cloth; front endpaper separated, front inner hinge cracked. Ownership signature of Rudolf Pintner (1884-1942), University of Leipzig, 1910. Harry Levi Hollingworth wrote a memorial for Pintner in 1951. Very good. Max Richard Constantin Verworm (1863-1921), was a German physiologist who studied medicine and natural sciences in Berlin and later moved to Jena, where he studied with Ernst Haeckel and William Thierry Preyer. In 1895 he became professor at the University of Jena, and in 1901, professor at the physiological institute at Göttingen. In 1910 he succeeded Eduard Pflüger as professor at the University of Bonn. In 1902 he founded the journal *Zeitschrift für Allgemeine Physiologie* and was its publisher until his death. \$ 6
1094. **VESALIUS, Andreas.** *The Epitome of Vesalius. Translated from the Latin with preface and introduction by L.R. Lind. With anatomical notes by C.W. Asling. Foreword by Logan Clendenning.* Cambridge: MIT Press, (1969). 8vo. xxxvi, 103 pp. Illus. (with full facsimile). Printed wrappers; heavily rubbed. Ink ownership signature of David C. Lindberg. Very good. \$ 18

1095. **VESALIUS, Andreas.** *Three Vesalian Essays to Accompany the Icones Anatomicae of 1934.* By the late Samuel W. Lambert, Willy Wiegand, & William M. Ivins, Jr. New York: Macmillan, (1952). 8vo. x, 128 pp. Illus. Cloth, dust-jacket; jacket worn. BL2984 \$ 10
1096. **[VESALIUS, Andreas (1514-1564)]** *Bibliothèque Royal de Belgique. André Vésale: Rénovateur de L'Anatomie Humaine, 1515-1564. Documents conservés en Belgique et exposés à la Bibliothèque royale de Belgique, à Bruxelles, du 22 juillet au 21 septembre 1957.* Bruxelles: Editions Arsacia, 1957. 8vo. 88 pp. 14 figs., index. Printed wrappers; small stain to front cover. Preface by Herman Liebaers. An exhibition catalogue of 116 items relating to Andreas Vesalius on the occasion of the First International Congress of Neurological Sciences, Brussels 1957. Very good. Z1686 \$ 20
1097. **VESCOVINI, Graziella Federici.** *"Arti" e Filosofia nel secolo XIV : Studi sulla tradizione aristotelica e i "moderni".* Florence: Nuovedizioni Enrico Vallecchi, 1983. 8vo. ix, 354 pp. Facs., index. Printed wrappers. Ink ownership signature of David C. Lindberg. Fine. \$ 20
- My most relevant publications also cover the most important masters in the history of philosophy and science of the University of Padua at the beginning of the fourteenth century (Pietro d'Abano) and the end of the fourteenth (Biagio Pelacani from Parma professor at Padua in the years 1382 - 85, the famous optical and logical. To him I devoted a monograph, *The crisis of Aristotelianism Astrology and science on the fall of the fourteenth century*, and Biagio Pelacani from Parma, Florence, new editions Vallecchi, 1976, with other critical edition of the *Quaestiones logice*, Paris, Vrin, 2002, now the critical edition of the *Quaestiones Perspectivae*, Paris, Vrin, 2007." Translated from the author. BL2985
1098. **[VIATOR, Jean Pélerin] L. BRION-GUERRY.** *Jean Pélerin Viator; as place dans l'histoire de la perspective.* Paris: Société d'édition les Belles Lettres, 1962. Series: *Les Classiques de l'Humanisme...* 8vo. 511, [3] pp. 125 figs., index. Original printed wrappers; upper wrapper torn at edge. Ink ownership signature of David C. Lindberg. Very good. \$ 16
- Jean Pélerin Viator (1445-1524) is known as the author of *De Perspectiva Artificiali* who introduced for the first time in the perspective drawing artificial notion of "distance point". This treaty was plagiarized repeatedly, notably in the various editions of the *Margarita philosophica* of Gregor Reisch.
1099. **VILLAT, Henri (1879-1972).** [Three works:] *Mécanique des Fluides*, (1930). *Leçons sur l'Hydrodynamique*. (1929). *Leçons sur la Théorie des Tourbillons* (1930). Paris: Gauthier-Villars et Cie, 1929-30. Series: *Cours de l'Ecole Nationale Supérieure d'Aéronautique*. Large 8vo. vii, 175, iii, [6], 296, [liv], 300 pp. Early quarter maroon morocco, black lined spine with gilt title, maroon cloth sides; corners showing. Villat was a professor of fluid mechanics at the University of Paris since 1927. He was elected a member of the French Academy of Sciences in 1932, becoming its president in 1948. [HL] \$ 30
1100. **VICKERS, Brian (editor).** *English Science, Bacon to Newton.* Cambridge: Cambridge University Press, 1987. Series: Cambridge English Prose Texts. 8vo. xii, 244 pp. Illus., index. Printed wrappers. Ink ownership signature of David C.

Lindberg. Fine.

\$ 33

“Seventeenth-century England witnessed an unprecedented flourishing of natural philosophy, inspired by Francis Bacon’s call for a new science based on observation and experiment, to be carried out in collective research projects, whose findings would be communicated in clear language. This anthology documents the effect of Bacon’s ideas in the remarkably fruitful period following 1660. It includes his sketch of a scientific research institute in the New Atlantis (1627), which inspired the founding of the Royal Society in 1662, as acknowledged by Thomas Sprat in its *History*, excerpted here. Bacon’s plea for an appropriate language for science also affected the Royal Society, as Sprat records, and gave birth to a number of schemes for man-made artificial languages, represented here by John Wilkins’s *Essay Towards a Real Character and a Philosophical Language* (1668). The selections are accompanied by a general introduction, extensive notes, contemporary illustrations, a glossary of obsolete and technical terms and an updated bibliography.” ISBN: 0521316839 / 0-521-31683-9

1101. **VIER, Peter C.** *Evidence and Its Function According to John Duns Scotus*. St. Bonaventure, NY: Franciscan Institute, 1951. Series: *Franciscan Institute Publications, Philosophy Series*, no. 7. 8vo. xi, 174 pp. Index. Printed wrappers. Ink ownership signature of David C. Lindberg. Fine. Scarce. \$ 23
1102. **VOGEL, Théodore.** *Les Fonctions Orthogonales dans les Problèmes aux Limites de la Physique Mathématique*. Paris: Renseignements et vente au Service des publications du CNRS, 1953. Series: Centre d’études mathématiques en vue des applications, Paris; Publications; C: Physique mathématique. At head of title: Centre national de la recherche scientifique. 8vo. 191 pp. Folding table. Original printed wrappers; extremities chipped, cellophane covering entire spine title. Good. [HL] \$ 5
1103. **VOOLICH, Erica Dakin.** *A Peek Into Math of the Past*. Parsippany, NJ: Dale Seymour, 2001. 4to. [iv], 171 pp. Printed wrappers. As new. ISBN: 0769008283 / 0-7690-0828-3 [BH] \$ 4
1104. **VRYONIS, Speros, Jr.** *The Decline of Medieval Hellenism in Asia Minor and the Process of Islamization from the Eleventh through the Fifteenth Century*. Berkeley: University of California Press, (1986). 8vo. xvii, 532 pp. Folding map, index. Red printed wrappers. Ink ownership signature of David C. Lindberg. Very good. Fine. ISBN: 0520057538 \$ 30
1105. **WADSWORTH, Frank Lawton Olcott** (1867-1936). “The Publications of the Allegheny Observatory.” [No place] Reprinted from: *The Astrophysical Journal*, Vol. XIV, No. 1, July 1901. Series: *Miscellaneous Scientific Papers from the Allegheny Observatory - New Series*. No. 3. 8vo. 66-78 pp. Printed wrappers; a bit soiled. Former library copy with the usual markings. Very good. Z1689 \$ 12
1106. **WADSWORTH, Frank Lawton Olcott** (1867-1936). *Statements Regarding Exchanges Offered by the Allegheny Observatory Library*. Lancaster: New Era Printing, 1903. Series: *Miscellaneous Scientific Papers from the Allegheny Observatory - New Series*. No. 17. Reprinted from *Science*, N.S., Vol. XXIII., No. 458, pp. 471-472, October 9, 1903. 8vo. 16 pp. Printed wrappers. Former library copy. Very good. Z1690 \$ 12

1107. **WADSWORTH, Frank Lawton Olcott** (1867-1936) & **Frank SCHLESINGER** (1871-1943) [eds.]. *Miscellaneous Scientific Papers of the Allegheny Observatory of the University of Pittsburgh. New Series - Volume I*. Lancaster: New Era Printing, 1910. 8vo. [4] pp. Self-wraps. Former library copy. Provides authors and titles of 20 papers published by staff members of the observatory. Very good. Z1691 \$ 10
1108. **WALFORD, Albert John** (1906-2000) [ed.]. *Guide to Reference Material. Second Edition. Volume I: Science and Technology*. (London): Library Association, (1968). Reprint. 8vo. vii, 483 pp. Two color title (printed in dark maroon and black), index. Maroon cloth, gilt-stamped cover and spine labels, dust-jacket; cloth spotted, library number removed from jacket spine, bottom jacket end chipped. Former library copy. Very good. ISBN: 0853650713 Z1692 \$ 15
1109. **WALKER, D.P.** *Spiritual and Demonic Magic from Ficino to Campanella*. Nendeln / Liechtenstein, 1969. 8vo. vi, 244 pp. Index. Linen cloth. Ink ownership signature of David C. Lindberg. Very good. Scarce in cloth. \$ 45
 Reprint of the 1958 printing. First published by the Warburg Institute in 1958, this book is considered a landmark in Renaissance studies. Whereas most scholars had tended to view magic as a marginal subject, Walker showed that magic was one of the most typical creations of the late fifteenth and sixteenth centuries. Walker takes readers through the magical concerns of some of the greatest thinkers of the Renaissance, from Marsilio Ficino, Giovanni Pico della Mirandola, and Jacques Lefevre d'Etapes to Jean Bodin, Francis Bacon, and Tommaso Campanella. Ultimately he demonstrates that magic was interconnected with religion, music, and medicine, all of which were central to the Renaissance notion of spiritus.
1110. [**WALKER, Sears Cook** (1805-1853)] **Benjamin Apthorp GOULD**. (1824-1896). *An Address in Commemoration of Sears Cook Walker, Delivered before the American Association for the Advancement of Science, April 29, 1854*. (Cambridge): Joseph Lovering, 1854. 6to. 28 pp. Original printed wrappers; covers starting. Rubber stamp of the Maine Historical Society on front cover and title. Previous owner's penciled signature on title. Very good. WITH THE AUTHOR'S PRESENTATION INSCRIPTION AND INITIALS. Gould was the founder of the *Astronomical Journal* and the discoverer of the Gould Belt. Z2004 \$ 25
1111. [**WALKER, Sears Cook** (1805-1853)] **Benjamin Apthorp GOULD** (1824-1896). *An Address in Commemoration of Sears Cook Walker, Delivered before the American Association for the Advancement of Science, April 29, 1854*. (Cambridge): Joseph Lovering, 1854. 6to. 28 pp. Original printed wrappers. Fine. Z2005 \$ 15
1112. **WALLACE, Alfred Russel** (1823-1913). *Island Life: or, the Phenomena and Causes of Insular Faunas and Floras, Including a Revision and Attempted Solution of the Problem of Geological Climates*. London: Macmillan, 1880. 8vo. xvii, [3], 526, [ads 2] pp. Hand-colored frontispiece map, 25 additional maps, index; a few maps lightly foxed. Original black-and-gilt-stamped pebbled green cloth, t.e.g.; new pastedowns and end-papers, neatly restored preserving original spine. Very good. \$ 600
 FIRST EDITION of Wallace's supplement to *The Geographical Distribution of Animals*.

"*Island Life* (published 1880) was begun in 1877, and occupied the greater part of the next three years. This had been suggested by certain necessary limitations in the writing of *The Geographical Distribution of Animals*. It is a fascinating account of the relations of islands to continents, of their unwritten records of the distribution of plant and animal life in the morning time of the earth, of the causes and results of the glacial period, and of the manner of reckoning the age of the world from geological data. It also included several new features of natural science, and still retains an important place in scientific literature" (Wallace & Marchant, p. 12).

☼ Wallace, Alfred Russel & James Marchant, *Alfred Russel Wallace: Letters and Reminiscences*, Vol. II, London: Cassell, 1916.

1113. **WALLACE, Alfred Russel** (1823-1913). *Man's Place in the Universe: A Study of the Results of Scientific Research in Relation to the Unity or Plurality of Worlds*. New York: McClure, Philips, 1903. 8vo. [2], viii, [4], 326 pp. 2 folding plates, index; small stain to plates' margins near gutter (not affecting images). Original gilt-stamped navy blue cloth; extremities worn, rear hinge mended (kozo). Good.

\$ 25

FIRST EDITION of Wallace's treatise exploring how the shape and structure of the cosmos has bearing on "such issues as the nature of man and the relation of God to the universe" (Crowe, p. 199).

"Entitled '*Man's Place in the Universe*,' Wallace's essay appeared in both the *Fortnightly Review* and the *Independent*. By late 1903, Wallace had expanded it into a book, which carried the same title as his paper. The paper and book were so controversial that they generated over fifty published responses. Although Wallace's paper was not a significant contribution to stellar astronomy, it merits consideration as a striking example of the larger human significance seen in developments in stellar astronomy and as a vivid example of the degree to which the island universe theory had fallen into disfavor by the beginning of the twentieth century" (Crowe, p. 199).

☼ Crowe, Michael J., *Modern Theories of the Universe: From Herschel to Hubble*, Mineola, NY: Courier Dove, 1994.

1114. **WALLACE, Alfred Russel** (1823-1913). *My Life: A Record of Events and Opinions*. New York: Dodd Mead, 1905. Two volumes. 8vo. xii, 435, [1]; vi, [2], 464 pp. Frontispieces, plates, index. Original gilt-stamped red cloth, t.e.g.; extremities worn especially at spine ends, Vol. I hinges repaired. Title-page University Lake School, Hartland, WI rubber stamps, additional withdrawn stamps. Good.

\$ 75

FIRST AMERICAN EDITION of Wallace's autobiography. "Wallace concluded his autobiography with an assessment of his life's work that expresses the convictions that sustained him: 'If, therefore, my books and essays have been of any use to the world—and though I cannot quite understand it, scores of people have written to me telling me so—then the losses and struggles I have had to go through have been a necessary discipline calculated to bring into action whatever faculties I possess" (Wallace, Vol. II, p. 380 in Fichman, p. 5).

“Even Wallace’s autobiography lacks the self-congratulation characteristic of the genre—it includes, for instance, an account of ‘certain marked deficiencies in my mental equipment’” (Wallace & Berry, p. 383).

☼ Fichman, Martin, *An Evasive Victorian: The Evolution of Alfred Russel Wallace*, Chicago: University of Chicago Press, 2010; Wallace, Alfred Russel & Andrew Berry [ed.], *Infinite Tropics: An Alfred Russel Wallace Anthology*, London: Verso, 2003.

“Presentation Copy”

1115. **WALLACE, Alfred Russel** (1823-1913). *Studies Scientific & Social*. London: Macmillan, 1900. 2 volumes. 8vo. xv, [1], 532; viii, 535, [3] pp. Indices, 89 & 25 respective illustrations (including 1 folding color map “Ancient Glacier of the Rhone”), errata-slips tipped-in; pastedowns as well as first and last few pages foxed. Original gilt-stamped green pebbled cloth; lightly rubbed corners bumped, Vol. I spine head slightly torn. “Presentation Copy” title-page embossed-stamps. Very good.

§ 350

FIRST EDITION of Wallace’s collected essays, written between 1856 and 1899. Vol. I contains biological essays, while Vol. II is comprised of social theories.

“In later life, Wallace turned his attention to a variety of social and religious causes including women’s liberation, socialism, and the anti-vaccination movement. A selection of his collected articles appeared in two volumes entitled *Studies Scientific and Social* (1900), with an eclectic mix of topics including natural history, land nationalization, public museums, unemployment, and social justice” (Weber, p. 470).

☼ Weber, A.S. [ed.], *Nineteenth-Century Science: An Anthology*, Peterborough, ON: Broadview Press, 2000.

1116. **WALLACE, Alfred Russel** (1823-1913). *Tropical Nature, and Other Essays*. London: Macmillan, 1878. 8vo. xiii, [3], 356, [ads 1], [1] pp. Index; cords split at pp. 160-1 and 288-289 (reinforced with kozo). Original black-stamped green cloth, gilt-stamped spine; corners heavily repaired with Kozo paper. Armorial bookplate of Francis Reynolds Dickinson and Alice May Dickinson, bookseller label of Philip, Son & Nephew, Liverpool. AS IS.

§ 300

FIRST EDITION of Wallace’s collected essays on tropical flora and fauna, often contrasting with Darwin’s views outlined in the *Descent of Man*—particularly on the meaning and purpose of animal coloration.

“In 1878 Wallace published with Macmillan a scientific ode to the living world: *Tropical Nature and Other Essays*. It anticipates a concern for the environment that would not fully emerge until the twentieth century. No one in English science at the time—and certainly no one of Wallace’s stature—showed much interest in the ecological consequences of human encroachment on the natural world. *Tropical Nature* is the spiritual forerunner of Rachel Carson’s *Silent Spring*, which was written some eighty years later, long after *Tropical Nature* had vanished into obscurity and a prophet from an earlier generation had been forgotten. Its main

thrust, however, was to provide a detailed response to Darwin's theory of the origin and purpose of coloration in the higher animals. If Wallace's message about the destruction of the environment was lost, it was because he distracted his critics with other issues—in particular, his endless battle with Darwin over the importance of sexual selection" (Slotten, p. 352).

PROVENANCE: Francis Reynolds Dickinson (1880-1974) was a Harvard graduate (class of 1903) and "wealthy lawyer" who lived in Chicago with his wife, Alice May Dickinson (née Stirling) (b. 1884) (Virtue, p. 106). He was the son of William Dickinson, an influential member of Chicago's Board of Trade for nearly 40 years (Taylor, p. 101).

✧ Cole, Vol. II, 355; Slotten, Ross A., *The Heretic in Darwin's Court: The Life of Alfred Russel Wallace*, New York: Columbia University Press, 2006; Taylor, Charles Henry [ed.], *History of the Board of Trade of the City of Chicago: Biographical, Vol. III*, Chicago: Robert O. Law, 1917; Wood, Casey, *Introduction to the Literature on Vertebrate Zoology*, p. 617, Virtue, John, Leonard and Reva Brooks: *Artists in Exile in San Miguel de Allende*, Montreal & Kingston: McGill-Queen's University Press, 2001.

1117. **WALSH, James Joseph** (1865-1942). *Catholic Churchmen in Science. [Second Series]. Sketches of the Lives of Catholic Ecclesiastics Who Were Among the Great Founders in Science*. Philadelphia: American Ecclesiastical Review & the Dolphin Press, 1909. 8vo. xi, 228, ads. [2] pp. Two color title (printed in red and black), plates, index. Brown cloth, gilt-stamped dark red leather spine label, t.e.g.; spine label rubbed, rear hinge broken. Brief accounts of: Magnus, Pope John XXI, De Chauillac, Regiomontanus, "Clerical Pioneers in Electricity", and "The Jesuit Astronomers." Good. Z1695 \$ 12
1118. **WALTON, William & Charles Frederick MACKENZIE; Cambridge Senate-House.** *Solutions of the Problems and Riders proposed in the Senate-House Examination for 1854. By the Moderators and Examiners. With an appendix containing the examination papers in full*. Cambridge: Macmillan, 1854. [Authorship noted on binding spine, not on title]. 8vo. [vi], 225, [ads] 16 pp. 3 folding plates (pl. I bound tightly to gutter resulting in some loss). Original full olive blind and gilt-stamped cloth; spine mended. Early rubber-stamps of King's College, London. Good. [HL] \$ 25
1119. **WARREN, Henry White** (1831-1912). *Recreations in Astronomy with directions for practical experiments and telescopic work*. New York: Harper & Brothers, (1879). First edition. Sm. 8vo. [3], xiii, [1], 284 pp. Frontispiece (printed in blue), 82 illustrations, 1 colored plate with spectra (at pp. 52-53), 7 star maps. Original brown gilt-stamped cloth; endleaves with abrasion to extremities. Former ownership rubber stamp of "Frazer". Very good. \$ 20
- Warren was an American Methodist Episcopal bishop and author (this was his fourth book); he graduated from Wesleyan University in 1853 with the highest honor of Phi Beta Kappa.
1120. **WATERHOUSE, Frederick Herschel** (1845-1919) [comp.]. *Catalogue of the Library of the Zoological Society of London. Fourth Edition*. London: Taylor and Francis, 1887. 8vo. [iii], 515 pp. Original burgundy blind-stamped cloth; rebacked

1121. **WATSON, F. R.** *Bibliography of Acoustics of Buildings: Prepared under the Auspices of the Committee on Acoustics of Buildings, National Research Council.* Washington, D.C.: National Research Council, 1931. Series: Reprint and Circular Series of the National Research Council, No. 99. Reprinted from Journal of the Acoustical Society of America, July, 1931, Vol. II. No. 5, pp. 14-43. 8vo. 14-43 pp. Printed wrappers. Former library copy with the usual markings. Very good. Z1697
§ 10
1122. **WATSON, Henry William (1827-1903); S.H. BURBURY.** *The Mathematical Theory of Electricity and Magnetism. Vol. I, Electrostatics. [Vol. II, Magnetism and Electrodynamics].* Oxford: Clarendon Press, 1885. 2 volumes. Clarendon Press Series. 8vo. xii, 268, [ads] 8; xii, 256, [ads] 16 pp. Index; ink stain p. 125, occasional ink underlining or marginalia (see pp. 1, 45, 48, rear free endpaper). Original olive green blind and gilt-stamped cloth; bindings are mis-matched (vol. II is not marked "Clarendon Press Series" at foot of spine and the colors are close but not the same). Ownership signature of C.H. Kebby. [Provenance]: Charles H. Kebby, Imperial College of Science, South Kensington, is named in the Regulations and Courses for Internal Students, University of London, 1916, p.261. See: Great Britain. Parliament. House of Commons, Papers by Command, vol. 27, 1914, "The prize for the best student in Mathematics was awarded to Mr. C. H. Kebby."
[HL] § 20
1123. **WATSON, Henry William (1827-1903); Edward John ROUTH (1831-1907).** *Cambridge Senate-House Problems and Riders for the year 1860; with solutions.* Cambridge: Macmillan, 1860. Sm. 8vo. [iv], 198, [2] pp. 3 folding plates. Original olive green blind and gilt-stamped cloth; ftep clipped (large section missing), 2 manuscript sheets with mathematical problems explored (laid-in). Very good. [HL]
§ 60

Signed by Watson

1124. **WATSON, James D.** *The Double Helix: A Personal Account of the Discovery of the Structure of DNA. With a new introduction written exclusively for this edition by the author.* Norwalk, CT: Easton Press, (2009). Collector's edition. 8vo. xvi, 226 pp. Photographs. Gilt-stamped leather, five raised bands, a.e.g., silk end-leaves and place-keeping ribbon. SIGNED BY AUTHOR in ink at limitation page. Mint.
§ 250
Deluxe copy of Watson's account of Watson and Crick's discovery of the double helix structure of DNA.

"The double helix ultimately achieved an iconic status in popular culture. The photograph taken by Anthony Barrington Brown in 1953 of Crick and Watson staring at their model of the double helix is often reproduced. In the famous book *The Double Helix*, Watson described the discovery as a race for the Nobel Prize, involving colorful characters. Its noted first sentence reports that Watson never saw Crick in a modest mood. The book became the paradigmatic story of a science competition. At first, Crick tried to prevent Watson from publishing because he considered the book to be a fragment of Watson's autobiography, written for laymen. As a result, the story is told from one side, and the science behind the helix is simplified. Later, Crick revised his judgment, acknowledging that Watson's book

did include a large amount of science" (Priest, pp. 193-4).

☼ Priest, Susanna Horning. "Crick, Francis." *Encyclopedia of Science and Technology Communication*. Vol. 1. Thousand Oaks, CA: SAGE, 2010.

1125. **WAUGH, Albert E.** *Sundials Their Theory and Construction*. New York: Dover, 1973. Sm. 8vo. xii, 228 pp. Illus., diags., index. Printed wrappers. Very good. [BH] \$ 5
1126. **WEAVER, William Dixon** (1857-1919) [ed.]. *Catalogue of the Wheeler Gift of Books, Pamphlets and Periodicals in the Library of the American Institute of Electrical Engineers. With Introduction, Descriptive and Critical Notes by Brother Potamian*. New York: American Institute of Electrical Engineers, 1909. 2 vols. 8vo. vii, 504; 475 pp. Frontis. port. of Wheeler (Vol. I) and frontis. port. of Andrew Carnegie (Vol. II) with tissue guards and facsimile signatures, illustrations, indexes. Yellow buckram, gilt-stamped green spine labels; extremities soiled and worn, spine ends frayed, inner hinges cracked. Former library copies with the usual markings and defects (including rear pocket removal). One of the great monuments of scientific bibliography in the original covers, not the reprint. Fair. Z1698 \$ 50
1127. **WEISHEIPL, James A.** *The Development of Physical Theory in the Middle Ages*. London and New York: Sheed and Ward, (1959). Series: *Newman History and Philosophy of Science Series*, 4. Sm. 8vo. 92 pp. Printed wrappers. Very good. [BL2989] \$ 4
1128. **WEISHEIPL, James Athanasius.** *Nature and Gravitation*. River Forest, IL: Albertus Magnus Lyceum, 1955. 8vo. viii, 124 pp. Bibliog. Printed wrappers. Ink ownership signature of David C. Lindberg. Fine. Scarce. \$ 50
1129. **WEISHEIPL, James Athanasius.** *Philosophy and the God of Abraham; Essays in Memory of James Athanasius Weisheipl, OP. Edited by R. James Long*. Toronto: Pontifical Institute of Mediaeval Studies, (1991). Series: *Papers in Mediaeval Studies*, 12. 8vo. Frontispiece. Printed wrappers. Ink ownership signature of David C. Lindberg. Fine. \$ 40
Includes 18 essays. Among these is: William A. Wallace, "Aquinas and Newton on the Causality of Nature and of God: The Medieval and Modern Problematic." ISBN: 0888448120
1130. **WEISMANN, August.** *The Evolution Theory. Translated with the Author's Cooperation by J. Arthur Thomson and Margaret R. Thomson*. Illustrated. In Two Volumes. New York: AMS Press, (1983). Two volumes. Reprint of the 1904 edition published by E. Arnold, London. 8vo. xvi, 416; (i), 405 pp. Plates, illustrations, figs., index. Black cloth, gilt-stamped spine title. Fine. Scarce. ISBN: 0404081886 \$ 100
1131. **WEISMANN, August.** *The Germ-Plasm: A Theory of Heredity. Translated by W. Newton Parker and Harriet Rönnefeldt*. London: Walter Scott, 1893. Series: The Contemporary Science Series. 8vo. xxii, [xxiii], 477, ads. [10] pp. 24 illustrations, index. Burgundy cloth, gilt-stamped cover and spine titles; extremities a bit rubbed, inner hinge cracked. Rubber stamp of the East London Natural History & Microscopical Society on title. Very good. \$ 40

1132. **WEISS, Edmund** (1837-1917) **J. von HEPPEGER.** *Edmund Weiss. Sonderabdruck aus Vierteljahrsschrift der Astronomischen Gesellschaft, 53. Jahrgang, I. u. 2. Heft.* Leipzig: Poeschel & Trepte, 1918. 8vo. 14 pp. Frontis. port. of Weiss. Paper wrappers. Fine. Z2007 \$ 20
1133. **WEISS, Roberto.** *The Renaissance Discovery of Classical Antiquity.* Oxford & New York: Basil Blackwell, (1988). 8vo. xii, 233 pp. 16 pls., index. Printed wrappers. Ink ownership signature of David C. Lindberg. Very good. ISBN: 0631160779 \$ 12
1134. [**WELLS, Herbert George** (1866-1946)] **David C. SMITH.** *H.G. Wells: Desperately Mortal. A Biography.* New Haven and London: Yale University Press, (1986). FIRST EDITION. 8vo. xviii, 634 pp. Frontis. port. of Wells, plates, index. Red cloth, gilt-stamped spine title, dust-jacket. Very good. ISBN: 0300036728 Z1736 \$ 14
1135. **WERTHEIM, Margaret.** *Pythagoras' Trousers; God, Physics, and the Gender Wars.* New York: Times, 1995. 8vo. viii, 279 pp. Cloth, dust-jacket. Fine. \$ 8
- “This astute social and cultural history of physics explores how the development of physics has been intertwined with the rising power of institutionalized religion, and how both these predominantly masculine pursuits have influenced women’s ability to join the physics community, the science itself, and the picture of reality it portrays.” [jacket]. “A spirited look at the relationship between physics and religion—and the implications for both sexes. Here is a fresh, astute social and cultural history of physics, from ancient Greece to our own time. From its inception, ... Wertheim shows, physics has been an overwhelmingly male-dominated activity; she argues that gender inequity in physics is a result of the religious origins of the enterprise. Pythagoras’ Trousers is a highly original history of one of science’s most powerful disciplines. It is also a passionate argument for the need to involve both women and men in the process of shaping the technologies from the next generation of physicists.” ISBN: 081292200X / 0-8129-2200-X
1136. **WEST, Clarence J. & D.D. BEROLZHEIMER** [comps.]. *Bibliography of Bibliographies on Chemistry and Chemical Technology, 1900-1924.* [with:] *First Supplement, 1924-1928.* Washington, D.C.: National Research Council of the NAS, 1925-1929. Two issues. Series: *Bulletin of the National Research Council*, Vol. 9, Part 3, March, 1925, No. 50 and 71. 8vo. 308, ads. [6]; 161, ads. [8] pp. Original printed wrappers. Former library copy. Very good. Z1700 \$ 18
1137. **WEST, William.** *Acoustical Engineering; The theory of sound and its applications to telephone and architectural engineering and to acoustical measurements and research. A textbook for students and engineers.* London: Sir Isaac Pitman & Sons, 1932. Specialists’ series. 8vo. xi, 338, ads. 22, [2] pp. Folding frontis., figs., index. Navy blue blind and gilt-stamped cloth. Ownership rubberstamp. Very good +. [HL] \$ 30
1138. [**WETTSTEIN, Richard** (1863-1931)] **Otto PORSCH.** “Richard Wettstein.” Offprint from: *Berichten der Deutschen Botanischen Gesellschaft*, Jahrgang 1931. Band XLIX. 2. Generalversammlungsheft. Ausgegeben am 20. April 1932. (245 x 160 mm). 180-199 pp. Frontis. port. of Wettstein. Presentation rubber stamp from the author. Self-wraps. Fine. Z2008 \$ 20

Polya's Copy With His Signature

1139. **WEYL, Hermann.** *Gruppentheorie und Quantenmechanik.* Leipzig: S. Hirzel, 1931. Second edition. Large 8vo. XI, 366 pp. Original maroon-reddish gilt-stamped cloth. Bookplate and signature of G Polya. George Polya (1887-1985) was a Hungarian mathematician and professor of mathematics from 1914 to 1940 at ETH Zürich and from 1940 to 1953 at Stanford University. He made fundamental contributions to combinatorics, number theory, numerical analysis and probability theory. Harold Levine was also at Stanford's mathematics dept. and thus acquired some of Polya's personal library. Near fine. [HL] \$ 175

1140. **WHEELER, John Archibald** (1911-2008) & **Kenneth FORD.** *Geons, Black Holes, and Quantum Foam: A Life in Physics.* New York: W. W. Norton, (1998). 8vo. 380 pp. Photographs, index. Quarter gilt-stamped black cloth over similar black cloth, dust-jacket. SIGNED AND INSCRIBED FROM WHEELER to Dr. Carson Todd in ink at half-title. Signed and inscribed black-and-white photograph portrait of Wheeler laid-in. TLS (1/18/2000, 1 p.) from Wheeler to Dr. Todd referring to the book laid-in. Near fine. ISBN: 0393046427

\$ 450

Signed and inscribed copy of Wheeler's autobiographical account of his stupendous and unconventional career, with accompanying signed photograph and TLS.

Wheeler was "an American theoretical physicist who was largely responsible for reviving interest in general relativity in the United States after World War II. Wheeler also worked with Niels Bohr in explaining the basic principles behind nuclear fission. One of the later collaborators of Albert Einstein, he tried to achieve Einstein's vision of a unified field theory. He is also known for having coined the terms black hole, quantum foam, and wormhole and the phrase 'it from bit.' For most of his career, Wheeler was a professor at Princeton University and was influential in mentoring a generation of physicists who made notable contributions to quantum mechanics and gravitation" (*Wikipedia*).

1141. **WHEELER, John Archibald** (1911-2008). *A Journey into Gravity and Spacetime.* New York: Scientific American Library, (1999). Square 8vo. xii, [2], 257, [1] pp. Illustrations, index. Original printed wrappers. SIGNED AND INSCRIBED from author to Dr. Carson Todd at half-title. Very good. ISBN: 0716760347

\$125

Wheeler was the Joseph Henry Professor Emeritus at Princeton University and the Blumberg Professor of Physics and Director of the Center for Theoretical Physics at the University of Texas at Austin. He was also a past president of the American Physical Society, and a recipient of the Enrico Fermi Award, the National Medal of Science, the Niels Bohr International Gold Medal, and the Wolf Prize.

PROVENANCE: Dr. Carson Todd is a retired cardiologist who completed his cardiology fellowship at the University of Oklahoma Medical School.

1142. **WHEWELL, William** (1794-1866). *The Doctrine of Limits, with Its Applications; Namely, Conic Sections, the First Three Sections of Newton, the Differential Calculus. A Portion of a Course of University Education.* Cambridge, UK: Printed at the University Press for J. and J.J. Deighton and John W. Parker, 1838. 8vo. xxii, [2], 172 pp. Diagrams, errata sheet and "additional errata" tipped-in slip.

Contemporary quarter blue library cloth over paper boards; extremities worn, spine repaired with Kozo paper. Armorial bookplate and ownership signature of Joseph William Dunning. Very scarce.

\$ 75

FIRST EDITION of Whewell's course on limits, intended to facilitate academic study.

"Whewell followed his *Elementary Treatise on Mechanics* with a textbook on *The Doctrine of Limits* that was 'intended to contain all those portions of a mathematical course of reading which it appears desirable to recommend to students, as their employment during the second year of their residence in the University.' In this work he laid out his educational philosophy in more detail. 'All exact knowledge supposes the mind to be able to apply, steadily and clearly, not only the processes of reasoning, but also certain fundamental ideas; and it is one main office of a liberal education to fix and develop these ideas' (Whewell 1838b, vii-viii). For Whewell, there was a clear dividing line between the 'elementary portions of mathematics,' which are 'rightly and necessarily, made the basis of all intellectual education' and advanced mathematics, which serve 'as an intellectual discipline' and are 'the governing principles of the studies of the second stage of a liberal education.' Since 'all our knowledge, relative to the external world, must be subject to the conditions of space and number, those two fundamental ideas, being 'the subject matter of Geometry, of Arithmetic, and of Algebra in its character of Universal Arithmetic' define 'the elementary portions of mathematics.' Having mastered these, students are ready to move on to the next level, where the governing ideas are 'the mechanical ideas of Force and Body, with their various modifications; the idea of the Symmetry of symbolical expressions;—the idea of the Universal Interpretation of symbols, including as an important branch of this, the Application of Algebra to Geometry;—the idea of a Limit'" (Henderson, pp. 134-135).

PROVENANCE: Joseph William Dunning (1833-1897) "was an English entomologist who specialised in Lepidoptera," as well as a notary and President of the Royal Entomological Society from 1883-84. He co-authored *An Accentuated List of the British Lepidoptera*, with hints of the derivation of the names Entomological Societies of Oxford and Cambridge (1859) with A.W. Pickard, and named five new genera of moths. "A collection of letters between Dunning and Philipp Christoph Zeller and Henry Tibbats Stainton is in the library of the Natural History Museum" (Wikipedia).

☼ Henderson, James P., *Early Mathematical Economics: William Whewell and the British Case*, Lanham, MD: Rowman & Littlefield, 1996.

1143. [WHEWELL, William (1794-1866)] Janet Mary Stair DOUGLAS. *The Life and Selections from the Correspondence of William Whewell, D.D.* Bristol & Tokyo: Thoemmes & Kinokuniya, (1991). Facsimile reprint of the 1881 C. Kegan Paul edition. 8vo. xv, 591, ads. [2] pp. Frontis. port. of Whewell, index. Black cloth, gilt-stamped spine title. Fine. Scarce. ISBN: 1855060922 Z1737 \$ 100
1144. WHISTON, William. *Astronomical Principles of Religion, Natural and Revealed. (1717). Introduction by James E. Force.* Hildesheim: Georg Olms, 1983. Series: Anglistica & Americana, 109. Sm. 8vo. 71, xxxii, 304, 16, [iv] pp. Green cloth. Ink ownership signature of David C. Lindberg. Fine. ISBN: 9783487073279 \$ 35

1145. **WHISTON, William.** *A New Theory of the Earth.* New York: Arno Press, 1978. 8vo. 95, 388 pp. Figs. Cloth. Fine. ISBN: 0405104634 \$ 50
1146. [**WHISTON, William**] **James E. FORCE.** *William Whiston Honest Newtonian.* Cambridge: Cambridge University Press, (1985). 8vo. xxiii, 208 pp. Index. Cloth, dust-jacket; small tear to jacket at joint. Ink ownership signature of David C. Lindberg. Very good. ISBN: 0521265908 / 0-521-26590-8 \$ 22
1147. **WHITE, Andrew Dickson.** *The Warfare of Science.* New York: D. Appleton, 1893. Sm. 8vo. 151 pp. Original brick-red blind and gilt-stamped cloth. Bookplate removed. Very good. [BL2992] \$ 16
1148. **WHITEHEAD, Alfred North.** *Science and the Modern World.* New York: Macmillan, 1926. Reprinted. 8vo. xii, 304 pp. Navy cloth. Ink ownership signature of the noted geneticist Sewall Wright. Very good.

\$ 12

PROVENANCE: "Sewall Green Wright (1889 - 1988) was an American geneticist known for his influential work on evolutionary theory and also for his work on path analysis. With R. A. Fisher and J.B.S. Haldane, he was a founder of theoretical population genetics. He is the discoverer of the inbreeding coefficient and of methods of computing it in pedigrees. He extended this work to populations, computing the amount of inbreeding of members of populations as a result of random genetic drift, and he and Fisher pioneered methods for computing the distribution of gene frequencies among populations as a result of the interaction of natural selection, mutation, migration and genetic drift. The work of Fisher, Wright, and Haldane on theoretical population genetics was a major step in the development of the modern evolutionary synthesis of genetics with evolution. Wright also made major contributions to mammalian genetics and biochemical genetics." [Wikipedia].

1149. **WHITESIDE, Derek Thomas.** *Patterns of Mathematical Thought in the later Seventeenth Century.* Communicated by C.B. Boyer and I.B. Cohen. Berlin, Göttingen, Heidelberg: Springer, 1961. Offprint. Series: *Archive for History of Exact Sciences*, vol. 1, no. 3. 8vo. pp. 179-388. 123 figs. Printed wrappers; minor manuscript on spine. Very good. Scarce. \$ 45
1150. **WHITTAKER, Edmund Taylor** (1873-1956). *A Treatise on the Analytical Dynamics of Particles and Rigid Bodies with an introduction to the problem of three bodies. Fourth edition.* Cambridge: University Press, 1937. Tall 8vo. xiv, 456 pp. Index. Navy blue gilt-stamped cloth; some wear to top edge, neat kozo repair to inner joints. Ink title-page ownership signature of Harold Levine, 1941. Very good. [HL] \$ 28
1151. **WIARDA, Georg** (1889-1971). *Integralgleichungen unter besonderer Berücksichtigung der Anwendungen.* Leipzig & Berlin: G.G. Teubner, 1930. Series: Sammlung Mathematisch-Physikalischer Lehrbücher, 25. Sm. 8vo. 183 pp. 8 figs. Original red black-stamped cloth. Near fine. [HIL] \$ 20
1152. **WIEDEMANN, Gustav Heinrich** (1826-1899). *Die Lehre von Galvanismus und Elektromagnetismus. Erste Abtheilung: Elektrodynamik, Elektromagnetismus, Magnetismus aller Körper. Zweite Abtheilung: Induction, Schlussbetrachtungen, Nachträge.* Braunschweig: Friedrich Vieweg und Sohn, 1863. 2 vols. 8vo. ix, [1],

617, [1]; [iv], [619-621], 622-1183, [1] pp. 395 figures, 1 folding color plate (facing p. 876), bibliography, index. Early black half calf over marbled boards; worn, hinges cracked (holding at cords). "Cancelled" bookplates of Dr. Atkinson, Royal Military College, title-page rubber stamps of Finbury Technical College. Good.

§ 225

Early edition of Wiedemann's treatise on galvanism and electromagnetism, complete in two volumes.

The Electrician states that the first edition appeared in two volumes in 1863, followed in 1871 by a second edition in three volumes, and in 1885 a third edition "enlarged to five volumes, and with the altered title, '*Die Lehre der Elektrizität*'" ("Obituary. Gustav Heinrich Wiedemann," p. 800). However, at least one volume was first published in 1861, and Nichols cryptically puts the date of the first from 1860-1863: "Wiedemann is best known, perhaps, as the author of the compendious treatise on electricity which first appeared in two volumes under the title *Die Lehre von Galvanismus* (Brunswick, 1860 to 1863) It was subsequently rewritten and greatly enlarged as the growth of the subject of electricity demanded and was re-issued under a new name (*Die Lehre von der Elektrizität*), in 1882. Still another edition, further revised and largely rewritten with the coöperation of the author's son, Professor E. Wiedemann of Erlangen, was in progress, and two volumes had appeared, at the time of the father's death" (Nichols, p. 57).

Wiedemann is perhaps best remembered "as author of his great work, '*Die Lehre von der Elektrizität*,' a treatise that is encyclopedic in character, containing everything of importance on the subject of electricity, the use of electricity in the arts alone being expected" ("In Memoriam. Dr. Gustav Heinrich Wiedemann," p. 286).

PROVENANCE: Edmund Atkinson (1831-1900) was a lecturer on chemistry and physics first at Cheltenham College and later at the Royal Military College, Sandhurst, before becoming Professor of Experimental Science at Staff College. He was elected a fellow of the Chemical Society in 1859, and was one of the founders of the Physical Society. "Dr. Atkinson's services to science by the translation of numerous French and German works, among which we may specially mention Ganot's 'Physics,' Helmholtz's 'Popular Lectures,' Dubois's 'Magnetic Circuit,' and Mascart and Joubert's 'Electricity and Magnetism,' are well-known. For many years, too, he contributed to the Philosophical Magazine periodical reports on chemical papers published in France and Germany. Of late years, however, these have been superseded by the much fuller and more systematic Abstracts published by the Chemical Society" ("Obituary Notices. Edmund Atkinson," pp. 887-889).

☼ *Catalogue of the Wheeler Gift of Books, Pamphlets and Periodicals in the Library of the American Institute of Electrical Engineers*, no. 1537; "In Memoriam. Dr. Gustav Heinrich Wiedemann," *Pharmaceutical Review*, Vol. XVII, Milwaukee: *Pharmaceutical Review*, 1899, p. 296; Nichols, Edward Leamington, *Physical Review*, Vol. IX, New York: Published for Cornell University by the Macmillan Company, 1899; "Obituary. Gustav Heinrich Wiedemann," *The Electrician*, Vol. XLII, London: Printed and Published for the Proprietors by George Tucker, 1899, 799-800 pp.; "Obituary Notices. Edmund Atkinson," *Journal of the Chemical Society*, Vol. LXXIX, London, 1901, pp. 888-889.

1153. **WIEN, Wilhelm** (1864-1928). *Lehrbuch der Hydrodynamik*. Leipzig: S. Hirzel, 1900. 8vo. XIV, 319 pp. 18 figs. Original half black gilt-stamped cloth, patterned paper over boards; rubbed. Ink title-page ownership signature of Harold Levine, 1941. Very good. [HL] \$ 70
1154. **WIENER, Philip P.** *Dictionary of the History of Ideas. Studies of Selected Pivotal Ideas*. New York: Charles Scribner's Sons, (1973). 5 volumes; lacks slip-case. 8vo. Index; 2 leaves of index torn. Blue printed wrappers. Good. \$ 20
 Contents: Volume I: Abstraction in the Formation of Concepts to Design Argument. Volume II: Despotism to Law, Common. Volume III: Law, Concept of to Protest Movements. Volume IV: Psychological Ideas in Antiquity to Zeitgeist. Volume V: Index. BL2994
1155. **WIERUSZOWSKI, Helene.** *The Medieval University*. Princeton: D. Van Nostrand, (1966). Sm. 8vo. 207 pp. Index. Printed wrappers. Ink ownership signature of David C. Lindberg. Very good. \$ 26
1156. **WIGHTMAN, William** *Persehouse Delisle. Science and the Renaissance. Volume I: An Introduction to the Study of the Emergence of the Sciences in the Sixteenth Century; Volume II: An Annotated Bibliography of the Sixteenth-Century Books Relating to the Sciences in the Library of the University of Aberdeen*. Edinburgh and London & New York: Oliver and Boyd & Hafner, (1962). 2 vols. FIRST EDITION. Series: Aberdeen University Studies, Nos. 143-144. 8vo. xv, 327; xix, 293 pp. Plates, indexes. Red cloth, gilt-stamped cover coat-of-arms and spine title. Former library copies with the usual markings and defects. Very good. Z1710 \$ 30
1157. **WILKINS, Maurice Hugh Frederick.** SIGNED black and white photograph. Signed "M.H.F. Wilkins" in black ink on the lower face of the photo. The photograph possibly near the dates 1965/1972. 2 1/3 x 4 1/2 inches. \$ 750
 "They played around with models made out of bits of a children's construction set, and they consulted Wilkins and Franklin in London about their X-ray diffraction photographs, carefully concealing the reason for their interest.
 "A quarrel with Rosalind Franklin gave them their final, vital piece of data. On a visit to her lab, Watson, with typical brashness, lectured Franklin on the need for her to learn some theory, to interpret her photos of DNA. She exploded with anger, and he fled.
 "In the safety of Wilkins's laboratory the two men moaned about working with difficult women, and Wilkins produced Rosalind Franklin's most recent X-ray diffraction photograph. Watson tells us how he saw immediately that it told him what he needed to know.
 "My mouth fell open and my pulse began to race. The pattern was unbelievably simpler than those obtained previously. It could arise only from a helical structure."
 - Lisa Jardine, Shaping your place in posterity, June 8, 2007.
 "The discovery of the structure of DNA in 1953 revealed the physical and chemical basis of how characteristics are passed down through the generations and how they

are expressed in individual organisms.

“Maurice Wilkins and Rosalind Franklin, together with Ray Gosling, Alec Stokes and Herbert Wilson and other colleagues at the Randall Institute at King’s, made crucial contributions to the discovery of DNA’s structure in 1953.

“Wilkins began using optical spectroscopy to study DNA in the late 1940s. In 1950 he and Gosling obtained the first clearly crystalline X-ray diffraction patterns from DNA fibres, and Alec Stokes suggested that the patterns indicated that DNA was helical (spiral) in structure. – “Maurice Wilkins and Rosalind Franklin,” King’s College London.

“The history of science is full of quirky minor accidents with major consequences. In 1951, Wilkins’s boss, Professor Randall, was invited to a conference on macromolecules in Naples. At short notice he asked Wilkins to take his place and, in doing so, precipitated a meeting of incalculable importance.

“Wilkins went to Naples armed with taut enthusiasm for the prospects of his new type of research and with the best x-ray picture of DNA that he had so far taken. Dr. James Watson, at this time touring European laboratories to find the best place to settle to study the biology of genes, was at the meeting. He was more or less on holiday, but thought that Randall might have something interesting to say, for he was a physicist of some note as well as one of the world’s few experienced biophysicists. However, Watson was immediately and permanently fired by Wilkins’s talk on the investigation of DNA structure and by the beautiful x-ray diffraction patterns revealed by his single slide. Watson said later that this contribution “stood out from the rest like a beacon.”

“Watson was a biologist, and the meeting did not bring him to London. But it concentrated his thoughts, took him to Cambridge, underpinned his eventual collaboration with Crick and led to a continuing exchange of ideas and information between the Cambridge group and Maurice Wilkins and Rosalind Franklin in the MRC unit at King’s College. The stage was set for great discoveries.

“By 1953, Crick and Watson, using Wilkins’s data among others, had published their famous papers postulating the double-helix structure of DNA with its ladder of self-specifying amino acids. Their model was able to explain, on the basis of elegantly simple biochemistry, how all the functions of genetic material are written into its molecular structure.

“Achieved in a highly competitive context, this profound theoretical advance still had to be established as a reality of biology. This was done over the following few years, largely through Wilkins’s studies of purified DNA from many species of living things, carried out at the MRC biophysics unit at King’s.

“In the following decades this work served as the springboard for a vast worldwide expansion of research into molecular genetics. Wilkins went on to study the structure of various forms of RNA, a genetic material in its own right as well as an information messenger within cells, and a wide range of genetic problems, such as those of ageing, of genetic diseases and of obesity. His contributions to science extend far beyond the work that won him a Nobel Prize.” – Anthony Tucker, “Maurice Wilkins,” *The Guardian*, Wednesday 6 October 2004.

Wilkins (1916 – 2004), CBE FRS, was a New Zealand-born English physicist and molecular biologist, and Nobel Laureate whose research contributed to the scientific understanding of phosphorescence, isotope separation, optical microscopy and X-ray diffraction, and to the development of radar. He is best known for his work at King's College London on the structure of DNA. In recognition of this work, he, Francis Crick and James Watson were awarded the 1962 Nobel Prize for Physiology or Medicine, "for their discoveries concerning the molecular structure of nucleic acids and its significance for information transfer in living material." In 1960 he was presented with the American Public Health Association's Albert Lasker Award, and in 1962 he was made a Commander of the British Empire (CBE).

See: Wilkins, *The Third Man of the Double Helix*, 2003.

1158. **WILLIAM OF CONCHES & Gregor MAURACH.** *Philosophia mundi : Ausgabe des. 1. Buchs von Wilhelm von Conches' "Philosophia" mit Anhang, Übersetzung und Anmerkungen.* Pretoria: University of South Africa, 1974. 8vo. 77 pp. Figs. Original printed wrappers. Ink ownership signature of David C. Lindberg. Very good. RARE. \$ 45
1159. **William Heath.** *A Catalogue of Valuable Second-Hand Books, in Theology, Political Economy, History, Miscellaneous and Classical Literature....* London: G. Brandon, 1856-57. 3 bookseller catalogs: No. 6, 1855; No. 2, 1856; No. 2, 1857. 8vo. 16; 16; 16 pp. Self-wraps. No. 6, 1855 starting. Very good. Z1711 \$ 45
1160. **Willis and Sotheran.** *A Catalogue of Valuable Modern Books in General Literature, Comprising History, Theology, Biography, Natural History, Architecture, Engineering, Illustrated Works, Etc. Part 1. 1856.* [London]: Willis and Sotheran, 1856. (220 x 140 mm). 16 pp. Self-wraps. Very good. Z1712 \$ 10
1161. **WILLS, Herbert, III.** *Leonardo's Dessert No Pi.* Reston, VA: NCTM, (1985). 8vo. iv, 28 pp. 58 figs. Printed wrappers. Fine. [BH] \$ 5
1162. **WILLIS, John Christopher** (1868-1958). *Age and Area: A Study in Geographical Distribution and Origin of Species.* Cambridge, UK: Cambridge University Press, 1922. 8vo. x, 259, [1] pp. Illustrations, bibliography, index; pages mostly unopened. Original olive cloth, gilt-stamped spine; spine ends slightly rubbed. Near fine. \$ 20
- FIRST EDITION of Willis' work on evolutionary biogeography, including chapters by Hugo de Vries, Henry B. Guppy, Mrs. Eleanor Mary Reid, and James Small.

"In 1922 English botanist John Christopher Willis (1868-1958) published *Age and Area*. In this book, he postulated that age as an explanation of distribution was simpler than natural selection. The hypothesis was born when the author had the opportunity to study the flora of Ceylon (now Sri Lanka) (Willis 1915) and neighboring countries and observed that many endemic species were confined to small areas of the island, other species also distributed in India had larger areas, and those ranging beyond the peninsula had the largest areas. When defining very rare, rare, and rather rare species...Willis observed that very rare species occurred in one place only, rare species in areas about 10-30 miles across, and rather rare

species in areas 30-60 miles across. he found that the idea that endemic species were local adaptations could not explain the observed facts. Some mechanical explanations were necessary, and Willis thought it was the age of the species” (Morrone, p. 31).

☼ Morrone, Juan J., *Evolutionary Biogeography: An Integrative Approach with Case Studies*, New York: Columbia University Press, 2009.

Transactions of the Royal Society of Edinburgh

1163. [WILSON, Alexander (1714-1786)] Patrick WILSON (1743-1811). “Biographical Account of Alexander Wilson, M.D. late Professor of Practical Astronomy in the University of Glasgow... (Read February 2, 1789).” In: *Transactions of the Royal Society of Edinburgh*, Vol. X, pp. 279-297. Edinburgh & London: William Tait & Charles Tait, 1826. 4to. x, 483 pp. Engraved title illus., 22 plates in rear. Original blue paper wrappers, printed paper spine label; extremities worn, soiled. Substantially unopened. Entire issue is complete, with numerous contributions by David Brewster, and others. Very good. Z1713 \$ 100
1164. [WINCHELL, Alexander] Mark W. HARRINGTON. *A Memorial Address on the Life and Services of Alexander Winchell, LL.D., Professor of Geology and Paleontology*. [Ann Arbor]: University of Michigan, 1891. 8vo. 29 pp. Printed wrappers. Fine. Z2009 \$ 20
1165. WINDLE, Sir Bertram C.A. *The Church and Science. Third edition, completely revised*. London: Catholic Truth Society, (1924). 8vo. xviii, 427 pp. Red cloth stamped in black, gilt spine; spine foot scuffed. Good +. [BL2995] \$ 6
1166. [WINTHROP, John (1714-1779)] Michael N. SHUTE [ed.]. *The Scientific Work of John Winthrop*. New York: Arno Press, 1980. Reprint. Series: Three Centuries of Science in America. 8vo. Multiple paginations. Illustrations, including fold-out. Green cloth, gilt-stamped cover and spine titles; purple library stamps on title and copyright, else fine. Reprints and extracts of 13 papers with a few articles about Winthrop. ISBN: 0405125933 Z1714 \$ 62
1167. WOLF, Abraham. *A History of Science and Technology and Philosophy in the 16th & 17th Centuries. With the co-operation of F. Dannemann and A. Armitage. Second edition prepared by Douglas McKie*. New York: Harper & Brothers, (1959). 2 volumes. 8vo. xvi, 349; xv, (350)-686 pp. 316 illus., index. Printed wrappers. Ink ownership signature of David C. Lindberg. Very good. \$ 22
- “This two-volume study represents a detailed account of three centuries of innovation, providing a complete portrait of the foundations of modern science and philosophy. Tracing the origins and achievements of the modern age, these sourcebooks deal with all the important developments in science and many of the innovations in the social sciences, British and Continental philosophy and psychology. As well as its comprehensive treatment of the practical innovations, the texts also include biographical information, presenting in one source the history, methods and principles that form the foundations of science and philosophy. Subjects covered in the texts include: mathematics; mechanics; astronomy; physics; meteorology; chemistry; geology; geography; biology; psychology; economics; statistics; philosophy; technology; and social sciences.” BL2996

1168. **WOLF, Abraham.** *A History of Science and Technology and Philosophy in the 18th Century. Second edition revised by Douglas McKie.* New York: Harper & Brothers, (1961). 2 volumes. 8vo. 409; xv, (410)-814 pp. 345 illus., indexes. Printed wrappers. Ink ownership signature of David C. Lindberg. Very good. \$ 12
1169. **WOLF, Johann Rudolph** (1816-1893). *Handbuch der Astronomie, Ihrer Geschichte und Litteratur. Mit zahlreichen in den Text eingedruckten Holzstichen. In zwei Bänden.* Amsterdam: Meridian, 1973. Two volumes. Facsimile reprint of the 1890 Zürich edition. 8vo. xvi, 712; 658 pp. Diagrams, index. Green cloth, gilt-stamped dark blue cover and spine labels. Near fine. ISBN: 9060410866 Z1715 \$ 150
1170. **WOLF, Max** (1863-1932). *Ein Gedenkblatt. Berlin and Leipzig: Walter de Gruyter, 1933. Series: Sitzungsberichte der Heidelberger Akademie der Wissenschaften, Mathematische-naturwissenschaftliche Klasse, Jahrgang 1933. 4. Abhandlung.* 8vo. 28 pp. Frontis. port. of Wolf, plates. Printed wrappers; spine ends a bit chipped. Author's presentation signature on front cover (to Dr. Shapley). Features a bibliography of Wolf's work prepared by Max Münder. Very good. Z2011 \$ 20
1171. **WOLFF, Christian** (1678-1754). *Elementa Matheseos Universae. Tomus III, qui Opticam, Perspectivam, Catoptricam, Dioptricam, Sphaerica et Trigonometriam Sphaericam Atque Astronomiam tam Sphaericam, quam Theoricam Complectitur.* Halle (Saale), Germany: Prostat in Officina Rengeriana, 1735. 5 pts. in 1. VOL. III ONLY. Sm. 4to. [viii], 768 pp. Engraved head and tail-pieces, each section with numbered folding plates—6, 7, 12, 4, 15 (14), respectively; final section (Elementa Astronomie) numbered to 15 but skipping 9 (but numbered figures within plates are all present in sequential order, suggesting a printer's error rather than a lacking plate), first section (Elementa Opticae) plates 4-6 with marginal tears, third section (Elementa Dioptricae) plates 2-12 with small holes, occasional light scattered foxing. Contemporary full calf, gilt-stamped spine; worn, hinges cracked, corners showing, spine ends missing large pieces. Armorial bookplate featuring a lion holding a bird, ownership signature of Berthold Hinkle[?], title-page ownership signature of C. de Keliler[?]. Good; sold as is.

\$ 100

"Editio nova" of Vol. III of Wolff's extensive mathematical work, containing the "Elementa Opticae," "Elementa Perspectivae," "Elementa Dioptricae," "Elementa Sphaericorum et Trigonometriae Sphaericae," and "Elementa Astronomie," each copiously illustrated with folding plates.

"Wolff published *Elements of Universal Mathematics* [*Elementa Matheseos Universae*] in two volumes in 1713 and 1715, three years after first publishing his German *Anfangsgründe*; he expanded it into five volumes between 1730 and 1741. In contrast to his German geometry, Wolff intended this work for a more scholarly audience; practical applications were still included, but they did not dominate the work, and he set higher standards of rigor. The *Elementa* is generally much more thorough than the *Anfangsgründe*. But Wolff's views of the structure of human knowledge is crucial to his understanding of what will bring rigor. Wolff believed that if one organized properly defined concepts according to their logical relations, all human knowledge would be in principle derivable.... As a consequence, he believed that the geometrical axioms of the *Anfangsgründe* should be replaced with definitions and derivations from them, which is what he attempts in the *Elementa*. This work contains a few axioms, but Wolff thought that, in principle, they too

could someday be replaced by definitions and derivations from them” (Sutherland, pp. 163-164).

“The most influential philosopher in the Leibnizian tradition was Christian Wolff. Wolff was not an original thinker. Instead, he took the foundation of his system from his teacher Leibniz, systematized it, and put it within the grasp of any educated person. ...As Newton had given the universe a mathematical structure, so Wolff aimed to subsume human and society within a vast mathematical system” (Frängsmyr, p. 29).

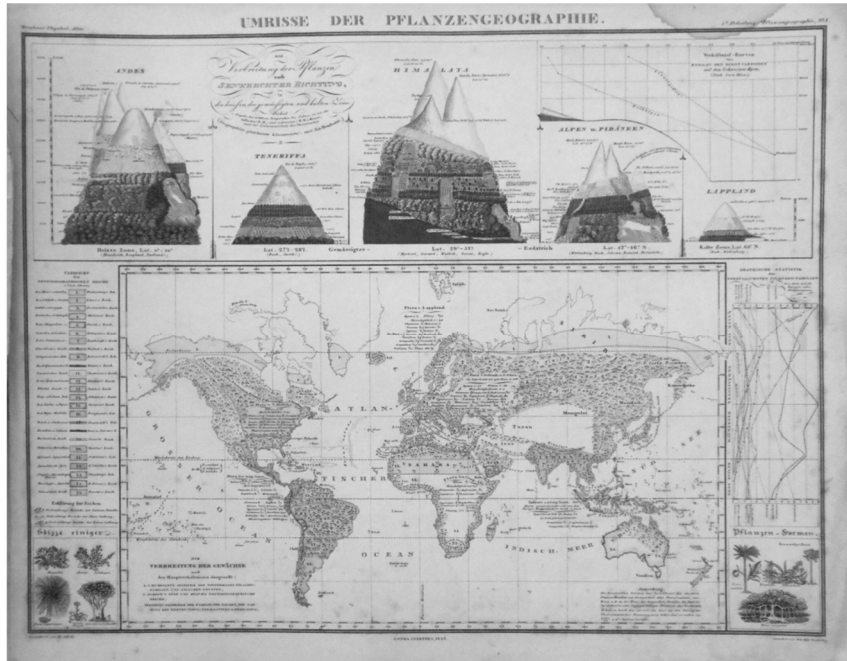
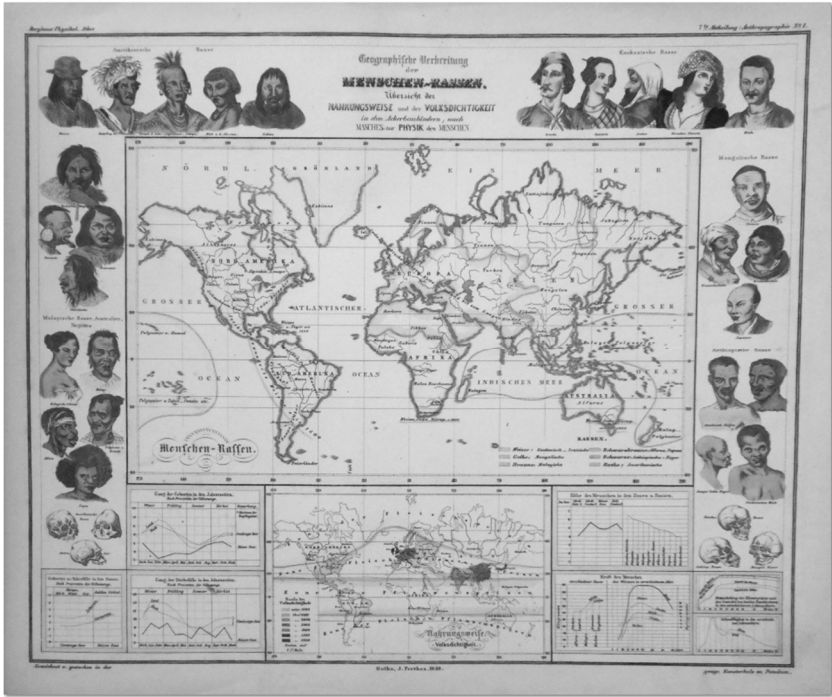
“In 1707 Wolff became professor of mathematics at Halle and later assumed the chair of philosophy. In Wolff’s work the one subject cannot be distinguished from the other. As a mathematician he hardly made an original contribution, but his diligence yielded bulky volumes summarizing the contemporary state of knowledge...” (Frängsmyr, p. 31).

☼ Frängsmyr, Tore, “The Mathematical Philosophy,” *The Quantifying Spirit in the 18th Century*, Berkeley & Los Angeles: University of California Press, 1990, 27-44 pp.; Sutherland, Daniel, “Philosophy, Geometry, and Logic in Leibniz, Wolff, and the Early Kant,” *Discourse on a New Method: Reinvigorating the Marriage of History and Philosophy of Science*, Chicago: Open Court, 2010, 155-192 pp.

1172. **WOLFSON, Harry Austryn.** *Philo; Foundations of Religious Philosophy in Judaism, Christianity, and Islam.* Cambridge & London: Harvard University Press, (1982). Fifth printing (first issued in 1947). 2 volumes. 8vo. xvi, 462; xiv, 531 pp. Index. Navy cloth. Ink ownership signature of David C. Lindberg. Very good. ISBN: 0674664507 / 0-674-66450-7 \$ 40
1173. **WOLSTENHOLME, Joseph** (1829-1891). *Mathematical Problems on the subjects for the Cambridge Mathematical Tripos Examination. Part I. Third edition, revised and corrected.* London: Macmillan, 1891. 8vo. xi, 499 pp. Original dark green blind and gilt-stamped cloth. Ink ownership inscription of T. W. Chaundy, Ball. Coll. [Balliol College] Dec. 1905. Theodore William Chaundy was a mathematician who authored a paper, The Uniformity of the Jacobian Elliptic Functions (1925). It is unclear if there is another person of the same name, possibly his son. See: Ferrar, W. L. “Theodore William Chaundy”, *Journal of the London Mathematical Society. Second Series*, (1966), 41: 755-756. [HL] \$ 70
1174. **[Women in Science] Eleanor Shafer ELDER.** *A Sourcebook of Early Women Scientists: A Thesis Submitted to the Graduate Faculty of the Louisiana State University and Agricultural and Mechanical College in Partial Fulfillment of the Requirements for the Degree of Master of Library Science in the Graduate School of Library Science.* Crowley: Self-published by the author, 1979. 280 x 220 mm. iv, 82 pp. Photocopied pages bound in file folder covers. Very good. Z1717 \$ 10
1175. **[WOODWARD, Robert Simpson (1849-1924)] F. E. WRIGHT.** *Biographical Memoir of Robert Simpson Woodward, 1849-1924.* Washington: National Academy of Sciences, 1938. Series: *NAS, Biographical Memoirs*, Vol. XIX, First Memoir. 8vo. 24 pp. Frontis. port. of Woodward with facsimile autograph. Printed wrappers. Fine. Z2012 \$ 10

1176. **WORK, Robert L.** "Ninety Years of Professor Agassiz's Natural History Library." Offprint from: *Harvard Library Bulletin*, Vol. VI, No. 2, Spring 1952. (260 x 175 mm). 202-218 pp. Printed wrappers. Very good. Z2013 \$ 10
1177. **WRIGHT, John Martin Frederick.** *A Collection of Cambridge Mathematical Examination Papers; as given at the several colleges. Part I: Containing papers in the branches of the pure mathematics; Part II: Containing papers in the branches of the mixed mathematics.* Cambridge: W.P. Grant, 1830-31. 2 parts in 1 vol. 8vo. [iv], 224; [2], 266 pp. Original half brown calf, marbled boards; joints broken (mended with kozo). [HL] \$ 50
1178. **WUSSING, Hans; Wolfgang ARNOLD** (eds.). *Biographien bedeutender Mathematiker; eine Sammlung von Biographien.* Berlin: Volk und Wissen Volkseigener Verlag, 1989. 8vo. 549 pp. Illus. throughout. Cloth, dust-jacket. Very good +. PRESENTATION CARD INSCRIBED from the author to Roger Hahn. Scarce. ISBN 3060025274 \$ 30
1179. **YERXA, Donald A.** (editor). *Recent Themes in the History of Science and Religion Historians in Conversation.* Columbia: University of South Carolina Press, (2009). 8vo. viii, 146 pp. Printed wrappers. Ink ownership signature of David C. Lindberg. Very good. Fine. [BL2998] \$ 9
1180. **YOST, Edna.** *Modern Americans in Science and Invention. Drawings by Margaret Ayer.* New York and Toronto: Frederick A. Stokes, (1941). Second printing. 8vo. xiii, 270 pp. Small title vignette, illustrations. Orange cloth, black stamped cover and spine titles, dust-jacket; jacket a bit worn with tear to top spine end. AUTHOR'S PRESENTATION INSCRIPTION: "For Ted Carpenter, Who knows a lot more about these matters than the Author, Edna Yost." Very good. Scarce in jacket. Z1719 \$ 20
1181. **YOU DEN, William Wallace.** *Computer Literature Bibliography, 1946-1963.* [with: *Computer Literature Bibliography, Volume 2: 1964-1967.*] Washington, D.C.: U.S. Government Printing Office, 1965-1968. Two volumes. Series: National Bureau of Standards Miscellaneous Publication 266; National Bureau of Standards Special Publication 309. 4to. iv, 463, [1]; iv, 381, [2] pp. Indexes. Dark blue cloth, gilt-stamped cover and spine titles; front pastedown and printed endpaper of Volume 2 faintly soiled, with a single library stamp. An unusual format for a bibliography, perhaps due to the newness of the subject matter. However, a large amount of information is recorded herein. Fine. Z1720 \$ 65
1182. **YOUNANS, Edward Livingston** (1821-1887) & **John FISKE** (1842-1901). *Edward Livingston Youmans: Interpreter of Science for the People. A Sketch of His Life. With Selections from His Published Writings and Extracts from His Correspondence with Spencer, Huxley, Tyndall and Others.* New York: D. Appleton, 1894. 8vo. vi, (vii), 597, ads. [6] pp. 2 plates (including engraved frontis. port. of Youmans with facsimile autograph and tissue guard), 1 facsimile sample of Youman's handwriting, index. Brown cloth, gilt-stamped cover and spine titles, t.e.g.; extremities speckled, a bit rubbed. Former library copy with the usual markings and defects. SIGNED PRESENTATION INSCRIPTION BY THE AUTHOR: "To the Petersham Library, from John Fiske. June 3/94". Very good. Z1721 \$ 50

1183. **YOUMANS, William Jay** (1838-1901) [ed.]. *Pioneers of Science in America: Sketches of Their Lives and Scientific Work. Reprinted with Additions from the Popular Science Monthly. With Portraits.* New York: D. Appleton, 1896. 8vo. viii, 508, ads. [4] pp. Engraved frontis. port. of Benjamin Franklin with facsimile autograph and tissue guard, plates, 5 illustrations. Dark blue cloth, gilt-stamped cover and spine titles (with small illustrations), t.e.g. Forty-nine well prepared biographical sketches for general readers in exceptionally well-preserved, original covers. Near fine (choice copy). Z1722 \$ 75
1184. **ZAGAR, Francesco.** *Ettore Leonida Martin.* Trieste: Università degli Studi di Trieste, 1968. 8vo. 27 pp. Printed wrappers. Near fine. Z2014 \$ 8
1185. [**ZAHM, John Augustine** (1851-1921)] **Ralph Edward WEBER.** *Notre Dame's John Zahm: American Catholic Apologist and Educator.* Notre Dame: University of Notre Dame Press, 1961. 8vo. xii, 214 pp. Frontispiece portrait of Zahm, index. Dark blue cloth, white stamped spine; front cover a bit stained, else fine. Z1741 \$ 12
1186. [**ZAHRTMANN, Christian Christopher** (1793-1853)] **A. C. PETERSON.** "Einige biographische Notizen über den kürzlich verstorbenen Königl. Danischen Vice-Admiral Zahrtmann." In: *Astronomische Nachrichten*, No. 867, col. (41)-56. [Altona]: [Gedruckt in der Buchdruckerei Hammerich & Lesser, 1854]. (280 x 230 mm). 8 pp. One loose full-page lithographic portrait of Zahrtmann. Self-wraps; pages dry and creased, port. folded with water-stain and one inch tear along crease. Good-Fair. Z2015 \$ 15
1187. **ZIEGLER, Heinrich Ernst.** *Der Begriff des Instinktes einst und jetzt. Eine Studie über die Geschichte und die Grundlagen der Tierpsychologie. Zweite, verbesserte und vermehrte Auflage.* Jena: Gustav Fischer, 1910. 8vo. vi, 112 pp. 16 figures, 2 folding plates, index. Original grayish printed cloth; a bit faded. Fine. \$ 12
Nature: "This is a revised and enlarged edition of a luminous essay which Prof. Ziegler contributed to the Weismann Festschrift in 1904. It deserves to be widely known as a terse and interesting introduction to comparative psychology. The treatment is in the main historical, and the author makes a point of showing how the conception of instinct has mirrored the progress of science." Feb. 23, 1911.
1188. **ZINNER, Ernst** (1886-1970). *Geschichte und Bibliographie der Astronomischen Literatur in Deutschland zur Zeit der Renaissance.* Leipzig: Karl W. Hiersemann, 1941. Tall 8vo. [iii], 452 pp. Table, index. Light purple cloth, gilt-stamped cover title and black spine label; extremities slightly faded, corners bumped. Bookplate of the Franklin Institute Library. Very good. Z1726 \$ 185
A work of consummate Germanic scholarship and detail.
1189. **ZINNER, Ernst** (1886-1970). *Veränderliche nebelartige Sterne. Die Schwermessungen im Ries, die Tektite und der Mond. Die Bibliographie der Astronomie. Aus alten Handschriften II.* Bamberg: Naturforschende Gesellschaft, 1964. Series: *Naturforschende Gesellschaft Bamberg Sonderdruck aus Dem 39. Bericht 1964.* 8vo. 34 pp. Printed wrappers. Minor red underline on front cover (neatly done). Near fine. Rare. Z1727 \$ 50



[776] Berghaus