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1. **ABAILARD, Peter** (1079-1142); **Blanche BOYER; Richard McKEON.** *Sic et non: a critical edition.* Chicago & London: The University of Chicago Press, (1976-1977). Thick 4to. vii, 714 pp. With corrigenda & addenda. Red pictorial cloth stamped in black and gold. Fine. Scarce.

\$ 450

Pierre Abélard [Petrus Abaelardus] was a medieval French scholastic philosopher, theologian and preeminent logician. The story of his affair with and love for Héloïse (he was castrated) has become legendary. The *Chambers Biographical Dictionary* describes him as “the keenest thinker and boldest theologian of the 12th Century.” He is one of the most original early thinkers of Western civilization. *Sic et Non* [‘yes’ and ‘no’], arguably his greatest work, is a demonstration (much to the chagrin of contemporary ecclesiastical authorities) that the Church did *not* agree on all issues. It “is an assemblage of opposite opinions on doctrinal points culled from the Fathers as a basis for discussion, the main interest in which lies in the fact that there is no attempt to reconcile the different opinions” - [Wikipedia]. ISBN: 0226000664

2. **ABBOT, David** [ed.]. *The Biographical Dictionary of Scientists: Astronomers.* New York: Peter Bedrick Books, (1984). FIRST AMERICAN EDITION. 8vo. iv, 204 pp. Illustrations, glossary, index. Black cloth, gilt-stamped spine, dust-jacket. Near fine. ISBN: 0911745807 Z1001 \$ 25
3. **ABELARD, Peter.** *A Dialogue of a Philosopher with a Jew, and a Christian.* Translated by Pierre J. Payer. Toronto: Pontifical Institute of Mediaeval Studies. 1979. Series: *Mediaeval Sources in Translation*, 20. 8vo. 186 pp. Index. Printed wrappers. Ink ownership signature of David C. Lindberg. Very good. ISBN: 03160874 \$ 14
4. **Accademia nazionale delle scienze detta dei XL.** *Catalogo delle Mostre del Bicentenario: Verona – Modena – Roma.* Rome: Accademia Nazionale delle Scienze detta dei XL, 1982. Series: *Scritti e Documenti* IV. 8vo. 138 pp. Numerous plates. Original printed wrappers. Exhibition catalogue of books and manuscripts curated by Daniela Fattori. Very good. Scarce. \$ 20
5. **Accademia Nazionale dei Lincei; Fondazione Leone Caetani, Università degli studi di Roma.** *La Diffusione delle Scienze Islamiche nel Medio evo Europeo.* Rome: Accademia Nazionale dei Lincei, 1987. Series: International Conference organized by the Accademia Nazionale dei Lincei Fondazione Leone Caetani ... in Italian and English. 8vo. 538, [1] pp. Original blue printed wrappers. Ink ownership signature of David C. Lindberg. Fine. Scarce.

\$ 50

Contents includes: Charles S F Burnett, “Literal Translation and Intelligent Adaptation Amongst the Arabic-Latin Translators of the First Half of the Twelfth Century,” Emmanuel Poulle, “Le vocabulaire de l’astronomie planétaire du XIIe au XIVe siècle,” Peter Dilg, “The Anatarabism in the Medicine of Humanism,” Nancy G. Siraisi, “Changing Concepts of the Organization of Medical Knowledge in the Italian Universities: Fourteenth to Sixteenth Centuries,” and Richard Lemay, “De la Scolastique à l’Histoire par le truchement de la Philologie: Itinéraire d’un Médiéviste entre Europe et Islam.”

6. **ADAMS, Frank Dawson.** *The Birth and Development of the Geological Sciences.* New York: Dover, (1954). 8vo. 506 pp. 79 figs., index. Printed wrappers; rubbed. Very good. \$ 4

7. **ADAMS, Walter S.** "Early Days at Mount Wilson" [from] *Publications of the Astronomical Society of the Pacific*, Vol. 59, Nos. 350-51, October-December, 1947. (230 x 150 mm). 213-231, 285-304 pp. Frontispiece, plates. Original printed wrappers. Fine. Z1781 \$ 20
8. **ADERLARD OF BATH; Charles BURNETT** (editor). *Adelard of Bath, an English Scientist and Arabist of the Early Twelfth Century*. London: University of London, 1987. Series: *Warburg Institute Surveys & Texts*, XIV. 8vo. viii, 208 pp. Figs., index; ink underlining. Printed wrappers; rubbed. Ink ownership signature of David C. Lindberg. Very good (noting underlining). Scarce. \$ 25
Twelve contributors: this work explores the range of Adelard's interests - as a courtier, a mathematician, an astrologer and a translator of Arabic works - and reveals the particularly lively state of scientific culture in Norman England. ISBN-10: 0854810706
9. **[ADERLARD OF BATH] COCHRANE, Louise.** *Adelard of Bath, the First English Scientist*. London: British Museum Press, (1994). 8vo. viii, 125 pp. Illus., index. Cloth, index. Ink ownership signature of David C. Lindberg. Very good +. \$ 39
"Mathematician, philosopher, prolific author, translator and astrologer, Adelard of Bath still found time to tutor the future Henry II, to assist at the Exchequer and to compose lively treatises on subjects ranging from the care of falcons to the uses of the astrolabe." ISBN: 071411748X / 0-7141-1748-X
10. **AIRY, George Biddell** (1801-1892); **AIRY, Wilfrid** [ed.]. *Autobiography of Sir George Biddell Airy*. Cambridge: Cambridge University Press, 1896. FIRST EDITION. 8vo. xii, 414 pp. Mounted steel frontis. port. of Airy with tissue guard, index. Dark blue cloth, gilt-stamped spine title; very small tears to spine ends, else very good. Previous owner's inked signature and date on f.f.e.p. Z1010 \$ 290
See: *DSB*, Vol. I, pp. 85-87.
11. **AITKEN, Robert Grant** (1864-1951) [comp.]. *Publications of the Astronomical Society of the Pacific. A General Index to Volumes I to XXV* (1889-1913). San Francisco: Printed for the Society, 1914. 8vo. 127 pp. Stapled self-wraps; original wrappers missing. Fair. Rare. Z1011 \$ 25
12. **[ALHACEN] A. Mark SMITH.** *Alhacen's Theory of Visual Perception; A Critical Edition, with English Translation and Commentary, of the First Three Books of Alhacen's De aspectibus, the Medieval Latin Version of Ibn al-Haytham's Kitāb al-Manāẓir. [Volume one: Introduction and Latin text; Volume two: English translation]. [By] A. Mark Smith.* Philadelphia: American Philosophical Society, 2001. Series: *Transactions of the American Philosophical Society*, vol. 91, parts 4 & 5, 2001. 2 volumes. Tall 8vo. clxxxi, 337; (338)-819 pp. Figs., index. Blue printed wrappers. INSCRIBED BY THE AUTHOR (Smith) to David C. Lindberg. ISBN: 0871699141 / 0-87169-914-1 \$ 25

"Sometime between 1028 and 1038, Ibn al-Haytham completed his monumental optical synthesis, *Kitāb al-Manāẓir* ("Book of Optics"). By no later than 1200, and perhaps somewhat earlier, this treatise appeared in Latin under the title *De aspectibus*. In that form it was attributed to a certain "Alhacen." These differences in title and authorial designation are indicative of the profound differences between the two versions, Arabic and Latin, of the treatise. In many ways, in fact, they can be

regarded not simply as different versions of the same work, but as different works in their own right. Accordingly, the Arab author, Ibn al-Haytham, and his Latin incarnation, Alhacen, represent two distinct, sometimes even conflicting, interpretive voices. And the same holds for their respective texts. To complicate matters, “Alhacen” does not represent a single interpretive voice. There were at least two translators at work on the Latin text, one of them adhering faithfully to the Arabic original, the other content with distilling, even paraphrasing, the Arabic original. Consequently, the Latin text presents not one, but at least two faces to the reader. Volume This two-volume critical edition represents fourteen years of work on Dr. Smith’s part. Awarded the 2001 J. F. Lewis Award.”

13. **[AL-KINDI] Robert HAND** (editor). *Al-Kindi On the Stellar Rays. Translated by Robert Zoller; edited by ... Project hindsight. Latin track. Volume 1.* (Berkeley Springs): The Golden Hind Press, (1993). 8vo. xxvi, 59 pp. Printed wrappers. Fine. RARE. \$ 12
14. **[ALLEN, Zachariah (1795-1882)] Amos PERRY.** *Memorial of Zachariah Allen. 1795-1882.* Cambridge: John Wilson and Son, 1883. 8vo. 108 pp. Frontis. port. of Allen with facsimile autograph and tissue guard, facsimile manuscript letter detailing “Letters and Totems of Indian Tribes”. Original printed wrappers; spine ends slightly chipped. Manuscript ownership info inked on front cover. Very good. Nice copy. Z1782 \$ 12.50
15. **[Almanacs] David L. O’NEAL.** *Early American Almanacs: The Phelps Collection 1679-1900.* (New Hampshire): David L. O’Neal, Antiquarian Booksellers, (n.d.). Series: Catalogue Twenty-Five. 4to. 162 pp. Illustrations, indexes. Printed wrappers. Very good. A significant work of reference with regard to early American almanacs in addition to being a bookseller’s catalogue. 1,621 items listed. Z1013 \$ 8
16. **[AL-RUHAWI] Martin LEVEY; American Philosophical Society.** *Medical Ethics of Medieval Islam, with Special Reference to al-Ruhawi’s “Practical Ethics of the Physician”.* Philadelphia: American Philosophical Society, 1967. Series: *Transactions of the American Philosophical Society*, vol. 57, part 3, May 1967. 4to. 100 pp. Index. Original printed wrappers. Fine. \$ 40
17. **[Albert the Great; Albertus Magnus] AKDOGAN, Cemil.** *Albert’s Refutation of the Extramission Theory of Vision and his Defence of the Intramission Theory. An edition, English translation and analysis of his Muslim sources.* Kuala Lumpur: International Institute of Islamic Thought and Civilization, 1998. 8vo. viii, 226 pp. Cloth, dust-jacket. INSCRIBED BY THE TRANSLATOR TO DAVID C. LINDBERG. Fine. Scarce.

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Examines Albert the Great’s treatment of visual theory in his *De sensu et sensate*, essentially a commentary on Aristotle’s work of the same title. “Albertus Magnus, also known as Albert the Great, was one of the most universal thinkers to appear during the Middle Ages. Even more so than his most famous student, St. Thomas of Aquinas, Albert’s interests ranged from natural science all the way to theology. He made contributions to logic, psychology, metaphysics, meteorology, mineralogy, and zoology. He was an avid commentator on nearly all the great authorities read during the 13th Century. He was deeply involved in an attempt to understand the import of the thought of Aristotle in some orderly fashion that was distinct from the Arab commentators who had incorporated their own ideas into the study of Aristotle. Yet he was not averse to using some of the outstanding Arab philosophers in developing his own ideas in philosophy. His superior understanding of a diversity of philosophical texts allowed him to construct one of the most remarkable syntheses

in medieval culture.” – Stanford Encyclopedia of Philosophy. ISBN: 9839379062

18. **ALTSHULER, Jose.** “La Telegrafía sin Hilos en Cuba (1899-1916)”. Within: *LJull: Revista de la Sociedad Española de Historia de las Ciencias y de las Técnicas*, ISSN 0210-8615, Vol. 20, N° 38, 1997. Article pages 443-463. Full issue: 443-853, viii pp. Illus. Original printed wrappers. Fine. \$ 20
Paper on the making of telegraph communications between the US and Cuba circa 1899 and 1916. Other articles include: Babini on the first computers in Argentina in 1960; Cervera on European missionaries coming to the Far East in the 16th century; Bueno & Lancharro on Francisco Vera, the eminent Argentinian historian of science; Magallon on Spanish women of science in physics and chemistry from 1910-1930, and others.
19. **American Bridge Company.** *The San Francisco-Oakland Bay Bridge. Designed and constructed under the supervision of the Department of Public Works of the State of California for the California Toll Bridge Authority. Superstructure constructed by American Bridge Company, Pittsburgh, Pa. for Columbia Steel Company, San Francisco., General Contractor.* New York: American Bridge Company, 1936. Sm. 4to. 93 pp. Illus. Original blue and black printed gray wrappers; corner bumped, rubbed. Very good. \$ 35
20. **[American Men of Science] James McKeen CATTELL (1860-1944) & Jacques CATTELL (1904-1960)** (eds.). *American Men of Science: A Biographical Directory.* Fifth Edition. New York: Science Press, 1933. Thick 8vo. viii, 1278 pp. Beige cloth, gilt-stamped dark brown leather spine label; spine label very rubbed. Very good. Contains about 22,000 entries of both men and women. Z1017 \$ 8
21. **[American Men of Science] Jacques CATTELL (1904-1960), Garrison CATTELL & Dorothy HANCOCK** [eds.]. *American Men of Science: A Biographical Directory. The Physical and Biological Sciences.* Tenth Edition. 4 Vols. Tempe, AZ: Jacques Cattell Press, 1960-61. Four vols. 4to. 4586 pp. Charcoal cloth, gilt-stamped red spine labels; some light rubbing and spotting. Very good. Contains about 90,000 entries of both men and women. Z1018 \$ 15
22. **American Society of Mechanical Engineers.** *Contents and General Index of the Transactions of the American Society of Mechanical Engineers*, Vol. I., 1880, to Vol. XX., 1899. New York: Published by the Society, 1899. 8vo. 188 pp. Brown cloth, gilt-stamped spine title; spine ends chipped. Very good. Z1019 \$ 45
23. **ANDRADE, Edward Neville da Costa.** *The Structure of the Atom.* Cheaper edition. London: G. Bell and Sons, 1934. Third edition re-issued, revised & enlarged. 8vo. xviii, 750 pp. 111 figs., large folding plate, index. Original maroon gilt-stamped cloth; rubber, joint with hole, front free e.p. clipped. Former ownership signature [probably Donald Strathearn Rawson (1905– 61), University of Saskatchewan, specialist in limnology.]. Very good. \$ 15
24. **ANDRADE, Edward Neville da Costa.** *Rutherford and the Nature of the Atom.* New York: Doubleday Anchor, (1960). Sm. 8vo. xix, 218 pp. Illus., figs., index. Paperback. Very good. \$ 5

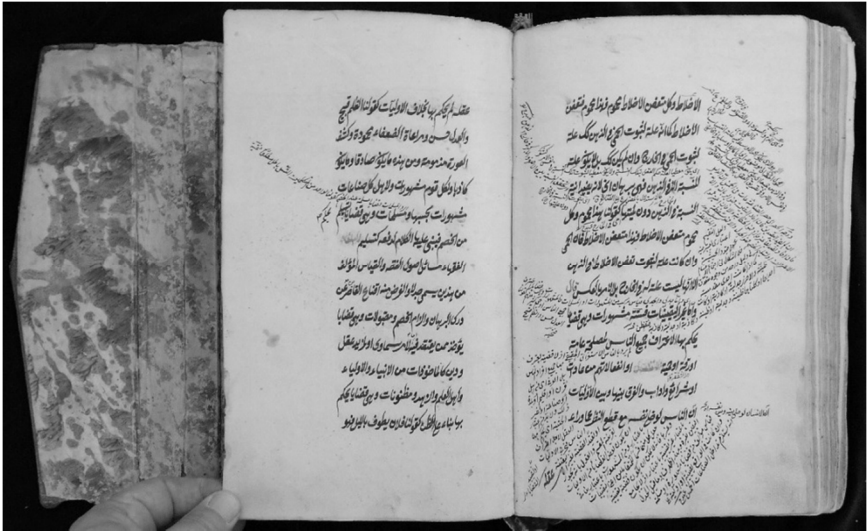


Arabic Manuscript on Islamic Logic & Philosophy

25. [Arabic Manuscript] **Najm al-Din al-Katibi**. Referencing the full title: [*Tahrir Al-Qawaid Al-Mantiqiyah Fi Sharh Al-Risalah al-Shamsiyah* (1203 or 4-1276 or 7)]. [Principles of Logic; commentaries on] Commentary on “Al-Risalah al-shamsiyah,” a book on Islamic philosophy regarding the basis of logic and rhetoric. Complete commentary with glosses on this classic thirteenth century text. The commentary starts on page 8 and discusses Islamic philosophy, logic, and metaphysics. Largely written in black ink with additional notations in red throughout. The main body of the work relates the logic phrases of Al-Risalah al-Shamsiyah. One part on geometry may be from Ptolemy’s *Almagest*. The last leaf in the book is a receipt of accounts paid. [place of origin unknown]. Written ca. 1675-1800.

17 x 27.5 cm. [526] pp. Arabic language manuscript with a few minor additions in old Persian. This manuscript, probably written ca. 1675-1800, with no date found within. The calligraphic hand [naskh] in this book is apparently written by the same hand throughout. This book is dedicated to Amir Ahmed. It is signed by the scribe Mohammed Mehdi. The owner of the manuscript, whose name was written on the same page, is blacked-out hiding his identity. There is a sentence that say “225 coins was given” for the contract of writing this work “on the first month of “Mirzan”. Later the accounting states that 100 coins were paid in the month of Safar. Binding: old brown calf with red-stained calf spine and flap, endleaves are early marbled papers (or possibly hand-painted in a decorative pattern); endleaves are trimmed at gutter, edges of binding scuffed. Very good.

“The *Risalah Shamsyyah* having, during six¹ hundred years, been the principal text book of Logic in all Mohammadun schools, appeared to have the best claims to represent the Logic of the Mussalmans.” Sprenger alludes to a biographical assessment of Najm al-Din al-Katibi as written by Amyr Kolong, “He is the author of commentaries on the *Talakhkhuc*, on the *Mohaççal* and on the *Hikmat al’ayn* of Rajab 675, (11 December 1272).” According to Springer, Hajj Khalyfah states that he was a pupil of Nacyr aldyn Tusy and placed his death at 693 (*Arabic Calendar*). – Sprenger (*Supple.*, p.i).



The original logic treatise [*Al-Risalah al-Shamsiyah*] is divided into three books. The FIRST is in four sections 1) On Words; 2) On Simple Meanings (Predicables) 3) Five Inquiries on Universals and Particulars 4) On Definitions (the ways of defining). The SECOND book is “on propositions and rules regarding them,” also divided into *three* sections and an introduction: “Definition of proposition and its primary division; Section I: – 1) Its parts and kinds; 2) On the four fenced Propositions; 3) On Privatives and Attributives; 4) On Modal Propositions. Section II: On the different kinds of hypothetical Propositions; Section III: Rules Concerning Propositions – 1) On Contradiction; 2) On even Conversion; 3) On Conversion by Contradiction; 4) On the Cohesion of Hypotheticals. THIRD book: On Syllogism – Definition and division of Syllogism; third section: Conjugate Syllogism containing hypothetical premises; fourth section: On the Interpellative Syllogism; fifth section: Pendants of the Syllogism. Conclusion – first inquiry: On the matter of Syllogisms; second inquiry: On the parts of which Sciences consist. – This contents derived from Sprenger.

This student’s/scholar’s manuscript is very rich in commentary, with massed marginalia written throughout. There are even additional notes saved on pasted tab-inserts.

1 Now about 760 years.

Al-Risalah al-Shamsiyah is the most celebrated Islamic book on logic. The Islamic philosophical text of Najm al-Din al-Katibi is still taught today in the Middle East. Texts like the present commentary are very useful to understand what was being taught by religious scholar at the Hawzah (a religious circle). The scribe's work might refer to other commentaries and thereby one can see the influences of the period.

The Minasian Collection at UCLA has several manuscripts of commentaries on *Al-Risalah al-Shamsiyah*. [<http://minasian.library.ucla.edu/>]²

Najm al-Din al-Qazwīnī al-Katibi (died AH 675 / 1276 CE), “was a Persian Islamic philosopher and logician of the Shafi'i school. A student of Nasir al-Din al-Tusi, he is the author of two major works, one on logic, *Al-Risalah al-Shamsiyya*, and one on metaphysics and the natural sciences, *Hikmat al-'Ain*. His work on logic, the *al-Risalah al-Shamsiyya* (*Logic for Shams al-Din*), was commonly used as the first major text on logic in Sunni madrasahs, right down until the twentieth century and is “perhaps the most studied logic textbook of all time.” Al-Katibi's logic was largely inspired by the formal Avicennian system of temporal modal logic, but is more elaborate and departs from it in several ways. While Avicenna considered ten modalities and examined six of them, al-Katibi considers many more modalized propositions and examines thirteen which he considers ‘customary to investigate.’ – Wikipedia. See: Mohaghegh.

PROVENANCE: Almost unknown, but the manuscript came to the United States by way of the Ricardo and D'Ancona families [a descendent of Isaac Ricardo³] who lived variously in the Netherlands, and possibly with roots in Spain or Portugal. The family came to the US ca.1892 to settle in New York. They were Sephardic Jews and tried to make a living here, but that was difficult. Their heritage was buried and so were some precious pieces, including an oil painting and this manuscript and some other items. The piece has been with the family after moving to Cambridge, St. Louis and Santa Monica. This was in the possession of Judith Koffler and now purchased from her by Jeff Weber.

✠ References: See: Parviz Morewedge (ed.), *Islamic philosophical theology*, 1979, p.235; Brockelmann, Carl. *Geschichte der arabischen Litteratur*. Leiden: E.J. Brill, 1937-1949, 2 vols. plus three supplementary volumes. [See: al-Katibi's *al-Risalah al-Shamsiyah* - Vol. I, p. 612 (466) and Supplement I, pp. 845-847]; For information on *al-Risalah al-Shamsiyah*, read Tony Street's essay on logic in: *The Cambridge Companion to Arabic Philosophy*, edited by Peter Adamson, Richard C. Taylor, Cambridge University Press, 2005. (pp.247, 250). [*Cambridge Companion*; Tony Street (2000), “Toward a History of Syllogistic After Avicenna: Notes on Rescher's Studies on Arabic Modal Logic”, *Journal of Islamic Studies* 11 (2): 209–228; M. Mohaghegh article on “al-Katibim Najm al-Din Abu'l-Hasan 'Alī b. 'Umar,” *Encyclopaedia of Islam*, second edition, Leiden: Brill, 1986-2000, Vol. IV, p. 762a-b. [*Encyclopaedia of Islam*; In addition there is

2 See: Commentator Qutb al-Tahtānī, Muḥammad ibn Muḥammad, 1294 or 5-1364 or 5, Caro Minasian Collection of Persian and Arabic Manuscripts, box 125, 1003. Also: box 32, 216; box 32, 222; box 108,811

3 Isaac Ricardo arrived at Ellis Island in both 1894 and 1921, claiming to be from Speyer [Spire] is a city of Rhineland-Palatinate, Germany. He came on the ship *Leopoldina*. His ethnicity was described as Dutch, married and he departed from Le Havre.

an edition and translation into English of al-Katibi's *Risalah Shamsyyah* in the *Appendix* to A. Sprenger's *Dictionary of the Technical Terms used in the Sciences of the Mussalmans, the logic of the Arabians, original Arabic, with an English translation*, Calcutta, 1854. [See: "Risalah Shamsyyah"]; Alāi ibn Muòhammad Jurjānāi, Muòhsin Bāidāarfār, Alāi ibn Umar Qazwāināi – have written a 480 page book commentary on Al-Risalah al-shamsiyah, published by Intishāaráat Bāidāar in 2003 [ISBN: 9789647155151].

26. **AQUINAS, Thomas.** *Summa Theologica. Complete English edition in five volumes. Translated by Fathers of the English Cominican Province.* Westminster, MD: Christian Classics, (1981). Reprint. 5 volumes (complete). 8vo. xix, 580; vi, 583-1161; vi, 1163-1790; vi, 1791-2432; vi, 2433-3057 pp. Purple cloth. Very good. ISBN: 0870610635 / 0-87061-063-5 \$ 75
27. **[AQUINAS, Thomas] Anthony KENNY.** *The Five Ways; Saint Thomas Aquinas' Proofs of God's Existence.* Notre Dame: University of Notre Dame Press, (1980). Sm. 8vo. 131 pp. Index. Printed wrappers. Ink ownership signature of David C. Lindberg. Fine. \$ 15
 "Philosophers and theologians who still consider belief in God to need rational justification frequently offer the arguments of Aquinas as such as justification. This book is a systematic study of the Five Ways by which St. Thomas Aquinas, in the '*Summa Theologiae*,' said that the existence of God could be demonstrated. The arguments are evaluated critically to show what they establish and what they fail to establish." ISBN: 0268009503
28. **[AQUINAS, Thomas] Mark D. JORDAN.** *Ordering Wisdom; The Hierarchy of Philosophical Discourses in Aquinas.* Notre Dame: University of Notre Dame Press, 1986. Series: *Publications in Medieval Studies*, XXIV. 8vo. xvii, 297 pp. Index; ink underlined (pp. 91-94). Cloth. Ink ownership signature of David C. Lindberg. Very good (noting 4 pages underlined). ISBN: 0268015007 / 0-268-01500-7 \$ 25
29. **[AQUINAS, Thomas] Jozephus B.M. WISSINK** (editor). *The Eternity of the World In the Thought of Thomas Aquinas and his Contemporaries.* Leiden, New York: E.J. Brill, 1990. Series: *Studien und Texte zur Geistesgeschichte des Mittelalters*, Bd. 27. 8vo. viii, 100 pp. Printed wrappers. Ink ownership signature of David C. Lindberg. Fine. ISBN: 9004091831 \$ 33
30. **[AQUINAS, Thomas] James A. WEISHEIPL.** *Friar Thomas d'Aquino, His Life, Thought, and Work.* Garden City, NY: Doubleday, 1974. 8vo. xii, 464 pp. Frontis., index. Cloth, dust-jacket. Ink ownership signature of David C. Lindberg. Very good. ISBN: 0385012993 / 0-385-01299-3 \$ 35
31. **ARAGO, Dominique François Jean** (1786-1853). *Biographies of Distinguished Scientific Men. Translated by Admiral W.H. Smyth, the Rev. Baden Powell, and Robert Grant.* Second Series. Boston: Ticknor and Fields, 1859. First American Edition. 12 mo. viii, 486, ads. 9 pp. A few figs. Brown cloth, gilt-stamped spine title; spine ends frayed. Very good. Substantial biographical accounts of Carnot, Malus, Fresnel, Young and Watt. Z1023 \$ 40
32. **[Archimedes] CLAGETT, Marshall (1916-2005).** *Archimedes in the Middle Ages. Volume four. A Supplement on the Medieval Latin traditions of Conic Sections (1150-1566). Part I: Texts and Analysis; Part II: Bibliography, Diagrams, and Indexes.* Philadelphia:

American Philosophical Society, 1980. 2 vols. 8vo. viii, 461; 465-566 pp. Figs., index. Cloth, dust-jackets; jacket with marginal tears. Very good. Very scarce.

\$ 95

Edward Grant has called Clagett “one of the greatest and most perceptive scholars of the twentieth century.” Clagett was the authority in his field, “[embracing] Greek and Arabic science, but laid overwhelming emphasis on medieval Latin physics and mathematics, which were heavily influenced by Greco-Arabic science.” “Clagett’s larger project was a five-volume work in ten tomes. *Archimedes in the Middle Ages* was truly monumental, engaging his attention for twenty years, from 1964 to 1984. In these volumes, Clagett published Latin editions and English translations of all the known Latin texts that had been translated from the works of Archimedes, as well as numerous Latin works that were ultimately influenced by Archimedes. The number of Archimedean texts edited—most of which were also translated—over the five volumes is truly amazing. For his Herculean efforts, Clagett was awarded the Alexandre Koyré Medal of the International Academy of the History of Science (Paris) in 1981.” Edward Grant, Marshall Clagett, Biographical Memoir, *Proceedings of The American Philosophical Society*, Vol. 152, No. 1, March 2008, pp. 122-125.

33. **[ARCHIMEDES] E.J. DIJKSTERHUIS.** *Archimedes*. Copenhagen: Ejnar Munksgaard, 1956. Series: Acta Historica Scientiarum Naturalium et Medicinalium, Vol. 12. 8vo. 422 pp. Frontispiece, 173 figs., index. Cloth, dust-jacket; jacket extremities worn. Ink ownership signature of David C. Lindberg. Very good. Scarce. \$ 100
First English edition. Translated from the Dutch by C. Dikshoorn. “Brilliant analytic summary ... Best over-all analysis” *DSB*, vol. I pp. 230-31). “An edition and study of Archimedes’ known works in which theorems are translated literally while a special notation, avoiding some of the implications of algebraic symbolism, is used to present paraphrases of the proofs. Subsidiary lemmas in the various treatises are grouped together in one chapter. Two chapters on the life of Archimedes and the tradition of the manuscripts open this important study” – Joseph Dauben, *The History of Mathematics from Antiquity to the Present: A Selective Bibliography*, no. 211.
34. **[ARCHIMEDES] E.J Sir Thomas L. HEATH.** *The Method of Archimedes recently discovered by Heiberg. A supplement to the Works of Archimedes 1897*. Cambridge: University Press, 1912. 8vo. 51 pp. Original printed wrappers; spine taped. Good. \$ 33
35. **[ARISTOTLE] British Library.** *Catalogue of the Printed Books in the Library of the British Museum: Aristotle*. London: British Library, [no date]. Folio. 170 columnar pages. Black cloth, gilt spine title. INSCRIBED to David C. Lindberg from I. BERNARD COHEN, 14 May 1972. \$ 50
This printed catalogue of all the books by Aristotle in the British Library serves to help see the organization and depth of Aristotle’s writings as arranged in a library bibliographic format. This is essentially a bound offprint from the full catalogue of printed books.
36. **[ARISTOTLE] Helen S. LANG.** *Aristotle’s Physics and Its Medieval Varieties*. (Albany): State University of New York Press, (1992). 8vo. ix, 322 pp. Index. Printed wrappers. Ink ownership signature of David C. Lindberg. Very good. \$ 25
37. **[ARISTOTLE] G.E.R. LLOYD.** *Aristotelian Explorations*. Cambridge: Cambridge University Press, (1996). First edition. 8vo. vii, 242 pp. Index. Cloth, dust-jacket. Ink ownership signature of David C. Lindberg. Very good +.

“This book challenges several widespread views concerning Aristotle’s methods and practices of scientific and philosophical research. Taking central topics in psychology, zoology, astronomy and politics, Professor Lloyd explores generally unrecognized tensions between Aristotle’s deeply held a priori convictions and his remarkable empirical honesty in the face of complexities in the data or perceived difficult or exceptional cases. The picture that emerges of Aristotle’s actual engagement in scientific research and of his own reflections on that research is substantially more complex than is usually allowed.” ISBN: 0521554225 / 0-521-55422-5

38. **[ARISTOTLE] Friedrich SOLMSEN.** *Aristotle’s System of the Physical World; A Comparison with His Predecessors.* Ithaca & New York: Cornell University Press, (1960). Series: Cornell Studies in Classical Philology, vol. XXXIII. 8vo. xiv, 468 pp. Index. Red cloth. Ownership ink signature of David C. Lindberg. Very good +. Scarce. \$ 150
- Friedrich W. Solmsen (1904-1989) was a philologist and professor of classical studies, producing some 150 books, articles, and reviews. He was influential in classical studies, including Greek tragedy, Aeschylus, Greek philosophy, Plato and Aristotle. For a long-time he was the Moses Slaughter Professor of Classical Studies at the University of Wisconsin–Madison.
39. **[ARISTOTLE] Frederick J.E. WOODBRIDGE.** *Aristotle’s Vision of Nature.* Edited with an Introduction by John Herman Randall, Jr. with the assistance of Charles H. Kahn and Harold A. Larrabee. New York & London: Columbia University Press, (1966). Second printing. 8vo. xxii, 169 pp. Cloth, dust-jacket; jacket extremities worn. Ink ownership signature of David C. Lindberg. Very good. \$ 5
40. **ARMELLINI, Giuseppe.** *Commemorazione del P. Giovanni Hagen.* Rome: Dott. Giovanni Bardi, 1931. (285 x 200 mm). 4to. 12 pp. Original printed wrappers; covers creased. Small rubber stamp on front cover. Fine. Z1785 \$ 18
41. **[ASLIB] British Scientific and Technical Books: A Select List of Recommended Books Published in Great Britain and the Commonwealth in the Years 1935-1952. With a Foreword by F.C. Francis [with:] ANTHONY, L. J. [ed.].** *British Scientific and Technical Books, 1953-7: A Select List of Recommended Books Published in Great Britain and the Commonwealth.* London: Published for ASLIB by James Clarke, (1956, 1960). Tall 8vo. xi, 364; ix, 251 pp. Indexes. Red and blue cloth, gilt-stamped black spine labels. Former library copies with the usual markings. Very good. Both volumes are organized by their Dewey Decimal Classifications. Z1029 \$ 12
42. **[Astronomischen Gesellschaft] Carl Christian BRUHNS (1830-1881) (ed.).** *Catalog der Bibliothek der Astronomischen Gesellschaft.* Leipzig: Wilhelm Engelmann, 1880. 8vo. vii, 75 pp. Printed wrappers; extremities clumsily repaired, front cover remnant preserved (interior pages intact and in good shape). Poor. Alphabetized by author with title, approximate heights, date and place of publication. Serials cataloged separately. Z1031 \$ 12
43. **[Astronomischen Gesellschaft] C.V.L. CHARLIER & Folke ENGSTRÖM [eds.].** *Porträtgalerie der Astronomischen Gesellschaft. Porträts Nebst Genealogischen Notizen.* Stockholm: Hasse W. Tullberg, 1904. 8vo. 70 pp. Small vignette portraits of members. Later burgundy cloth with original color stiff printed wrappers bound in, gilt-stamped spine title. Former library copy, embossed, one ink stamp. Very good.

RARE. Brief accounts of the well-known and the obscure with vignette portraits. Exceedingly hard to find these days. Z1032 \$ 150

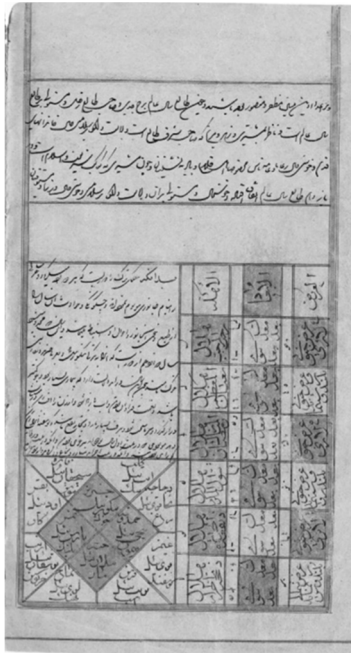
44. **[Astronomischen Gesellschaft] Anton Michael TASS** (1876-1937). *Porträtgalerie der Astronomischen Gesellschaft*. Budapest: Königliche Ungarische Universitätsdruckerei, 1931. 8vo. 85 pp. Small vignette portraits of members. Printed wrappers; some offsetting to covers. A few useful and scholarly handwritten additions and corrections from an unidentified hand. Former library copy, bookplate, single embossed stamp and ink rubbed-stamp with numbers at foot of title, some hand-inked call nos. on spine. Very good. RARE. Z1033

\$ 150

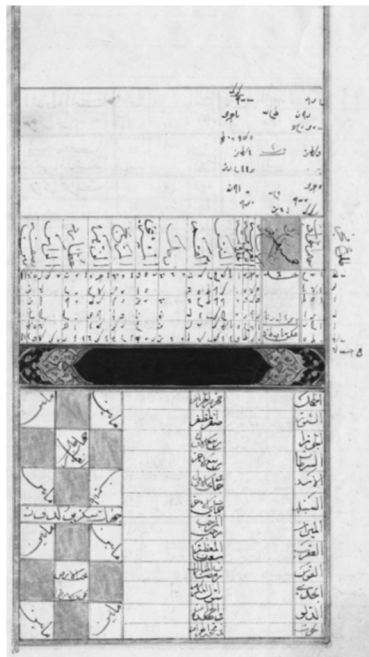
Expanded issue. Brief accounts of the well-known and the obscure with vignette portraits. Exceedingly hard to find these days.

45. **[Astronomischen Nachrichten] Gustav Adolph JAHN** (1804-1857) [ed.]. *General-Register der Bände XXI bis XXXX der Astronomischen Nachrichten*. Hamburg: Perther-Besser & Mauke, 1856. 4to. (iv), 313, [1] pp. Indexes. Original printed wrappers; disbound, spine mostly missing. Substantially unopened. Very good (accept for binding). Z1034 \$ 25

46. **[Astronomischen Nachrichten] Hermann Albert KOBOLD** (1858-1942) [ed.]. *Literarisches Beiblatt zu den Astronomischen Nachrichten*. 4 volumes. [Erster Jahrgang, Juli 1912 bis Juni 1913; Zweiter Jahrgang, Juli 1913 bis Juni 1914; Dritter Jahrgang, Juli 1914 bis Ende 1915; Viertes Jahrgang, 1916]. Kiel: Astronomischen Nachrichten, 1913-1920. 4to. x, 176; xii, 192; xii, 156; x, 128 columns. Half dark brown morocco with marbled paper sides, gilt-stamped spine title and ornaments with raised bands; corners worn. Former library copy with the usual markings. Very good. Z1036 \$ 75



[47]



47. [Astronomical Calendars] Three Persian-Arabic manuscripts of Astrological and Astronomical interest]

[A] **Persian Astronomical calendar** used during the reign of Naser al-Din Shah Qajar (1831-1896), King of Persia, who ruled from 1848 to 1896. Persia, 1885/1886. 8x5 inches. 16 ff. Farsi with some Arabic script. Illuminated in gold with blue, green and red decorative elements, entirely ruled in gold, with the first and last pages blank. The ornaments in this manuscript are very beautifully illuminated for the purpose of presentation. The text has references to the zodiac, planets, the phases of the Moon, and the months of the year. This type of calendar is very scarce on the market and is usually seen only in institutional or private collections. Very good condition.

§ 1,350

The first page of this handsomely calligraphed manuscript says that the calendar is for His Majesty's 39th year of reign (when he was 56) and can only fit with Naser al-Din Shah's history. It is probable that the calendar is made for a patron of the Persian court. Other dates on the second page also support this conclusion. By deduction the calendar is for the year 1886. Further the calendar mentions the Indian Zij calendar and names the Christian calendar at 1886 (in Farsi). The Chinese astrological calendar is named in detail: year of the Dragon, Monkey, Snake, Dog, Horse, Rat, Pig, etc. The manuscript is used to calculate the lunar events, especially with regard to prayer, a pilgrimage to Mahshad or other observances. Additionally the manuscript offers the best time to grow crops or harvest, the time to marry, or when to name your child, etc. Ultimately it offers "Only God knows what will be."

In the Qajar era, as in previous periods, there continued to be a fundamental division between a narrow stratum of courtiers, state officials, tribal leaders, religious notables, landlords and great merchants, at the top, and the vast majority of peasants, tribes people, and laborers in agriculture, traditional industries and services, at the bottom.

Recognition of this binary division is evident in the oft-cited distinction in the Qajar sources between the nobles and notables (*a'yan va ashraf*), on the one hand, and the commoners or the masses (*avam-al-nas* or *ra'iyat*), on the other. The use of such terms of contrast as *khavas va avam* (the elite and the masses), *aghniya va foqara* (the affluent and the poor), and *aqva va zu'afa* (the powerful and the meek), moreover, indicate an implicit awareness of the three main dimensions of inequality, i.e., social status, material resources, and power, respectively. – Ahmad Ashraf & Ali Banuazizi, "The Qajar class structure." Thus, due to its richness and it being a rare piece, this manuscript is made for a noble or notable person, not one of the commoners. During the Qajar period astronomical calendars were available in printed form and these are commonly available. Further the same type of calendar is still in use today by persons who tend to be highly religious.

"One of the important issues in the history of Iran (in Nasser-al-din Shah Qajar Era) is the opposition between the formation of new knowledge and technology and the preservation of the traditional knowledge and the reaction of the traditional science scholars. Epistemological foundations of a new civilization based on new scientific findings and on empirical methods in natural sciences through translations, with the traditional understanding of science and traditional means any knowledge and inductive method as a method for knowledge discovery was in contrast to the continuation of the Iranian traditional scientific approach. This contrast in various

[Astronomical Calendars - continued] fields of science had occurred due to various aspects of Qajar era: clash between the traditional astronomers named “Monajem -al Dawlah” against the translators of the new science, traditional schools against the Dar-al-Fonun, and, traditional rejection of translation and writing in modern newspapers. These clashes marked a new era in the field of scientific modernity in Iran. Attempts made by social groups in the challenging field of science and ideology in the form of translations of modern science and traditional treatises can be investigated. The opposition between the new and the old astronomy and the new translation in the Nazareth era (1845-1896 A.C.), has been the subject of the present article. In this study, the content of translated texts on astronomy and the astronomy texts belonging to the dominant discourse of Qajar era will be challenged. In this essay, the historical method is the main method for the research. Based upon the sources published in the subject area, we are in search of the causal relations within historical conditions and we implement the history of ideas approach towards the opponents and the proponents of science and scientific methods.” – ZARGARINEJAD GHOLAM HOSEIN, AHMADZADE MOHAMADAMIR, “THE OPPOSITION BETWEEN TRADITIONAL AND MODERN ASTRONOMY IN THE PROCESS OF THE TRANSLATION OF THE NEW SCIENCES (NASSER-AL-DIN SHAH QAJAR ERA),” *Journal of Iran History (Journal of Human Sciences)*; Fall 2010, (8 (66/5)); 49-69.

NOTE: Nasser al-Din Shah Qajar (16 July 1831 – 1 May 1896) (Persian: ناصرالدین شاه قاجار *Nāser-ud-Din Shāh Qājār*) was the King of Iran from 17 September 1848 to 1 May 1896, when he was assassinated. He was the son of Mohammad Shah Qajar and Malek Jahān Khānom and the third longest reigning monarch king in Iranian history after Shapur II of the Sassanid Dynasty and Tahmasp I of the Safavid Dynasty.

See: Abu Rayhan al-Biruni (973-1048 A.D.), *The Book of Instruction in the Elements of the Art of Astrology*; translated by Ramsay Wright, London 1934. This work is the classical source for describing calendars, horoscopes and the fundamentals of calendar computation. His work, *The Remaining Signs of Past Centuries*, aka, *Chronology of Ancient Nations or Vestiges of the Past*, after the translation published by Eduard Sachau in 1879, survives in a fourteenth century manuscript held by the University of Edinburgh [MS Arab 161]. “It is a comparative study of calendars of different cultures and civilizations, interlaced with mathematical, astronomical, and historical information, exploring the customs and religions of different peoples.” – Wikipedia.

[B] **Persian-Arabic manuscript Astronomical calendar** used during the reign of Naser al-Din Shah Qajar (1831-1896), King of Persia, who ruled from 1848 to 1896 – in this case the Shah is not named specifically. Mentions the Christian year 1888. Written on RUSSIAN paper, with a blind-stamp. The manuscript appears to be in the same handwriting as the piece above, however the elaborate decoration in [A] is not found in [B]. There is a lot of gold painted squares on every page and the text written in red or black ink. As before, this astrological calendar offers “The best time for a wedding ... the best time to construct a building, for bloodletting, for making new clothes, for horse riding, to start war, to enter a new city, to travel, to sail on the ocean, to start a business transaction, etc., all relative to the lunar calendar The lunar calendar is important to find the right balance for the ebb and flow of nature, including the cycle of women, of the waves at sea, of planting, etc. All this is purposefully stated to give information to the reader/owner so they can harmonize with nature, the moon, the seasons, the balance of life. In comparing the three

manuscripts one can see both similarities and differences. The [A] manuscript is very elegant and fine, whereas [B] manuscript looks not only less splendid, but it seems to be written in haste as some elements are left blank, or they are compressed into a small unfit space. Condition: some considerable wear at extremities and the first leaf is detached though complete.

[C] **Persian-Arabic Astronomical calendar** used during the reign of Naser al-Din Shah Qajar (1831-1896), King of Persia, who ruled from 1848 to 1896. Persia, 1889? This specimen does not mention the Christian year, though specimens [A] and [B] do mention the specific year. 8x5 inches. 16 ff. WRITTEN ON BLUE PAPER. Farsi with some Arabic script. Illuminated in gold throughout and entirely ruled in gold, with the first page blank and the final page with some early ink manuscript annotations. The rules in this manuscript are set up the same as the previous manuscript. The text has references to the zodiac, planets, the phases of the Moon, the position of the Sun, and the months of the year. The basis of the manuscript is a combination of horoscope, zodiac reading, astrology and astronomy as well as offering auspicious days for important dates in a person's life. The manuscript offers at least three important astronomical events including a lunar eclipse [names 1305 as the lunar year = ca. 1887]. At the top of each page-opening is the name of the Persian month as a key word [or catch-word]. This type of calendar is very scarce on the market and is usually seen only in institutional or private collections. Very good condition.

The Persian calendar is traditionally based on the solar calendar. Thus these three specimens show the influence of Arabic Islam entering into the Persian culture of the late nineteenth century.

Information for these comments comes from Professor Tofigh Heidarzadeh, Ph.D., University of California, Riverside, and lecturer on the history of science. Dr. Heidarzadeh is an expert on Persian astronomical calendars as well as teaching in the history of astronomy.

48. **[Astronomischen Nachrichten] Albert STICHTENOTH** (1866-1927); **Heinrich Friedrich KREUTZ** (1854-1907) [ed.]. *General-Register der Bände 121 bis 150 der Astronomischen Nachrichten Nr. 2881 bis 3600*. Kiel: Astronomischen Nachrichten, 1902. 4to. (iv), 388 columns. Half dark brown morocco with marbled paper sides, gilt-stamped spine title and ornaments with raised bands; edges worn, top spine end chipped. Former library copy with the usual markings. Good. Z1035
\$ 40
49. **[Astrophotography] University of California**. *A Select List of Lick Observatory Negatives from which Lantern Slides or Prints Can Be Supplied*. Mount Hamilton: Lick Observatory, 1929. 8vo. 11 pp. Printed wrappers. Previous owner's inked signature on front cover of Edgar N. Fought, M.D. [Philadelphia]. Very good. Rare. Z1037 \$ 30
50. **[Astrophotography] Yerkes Observatory**. *Astronomical Photographs. A Catalogue of Lantern Slides, Transparencies, and Prints from Negatives taken at the Yerkes Observatory. No. 1*. [with:] *Astronomical Photographs: From Negatives Taken at the Yerkes Observatory. Appendix A to Catalogue No. 1*. Chicago: University of Chicago Press, [1903]-1904. Two items. 8vo. 12; [4] pp. Printed wrappers; marginal tear to title of the catalogue. Very good. Z1038
\$ 12

51. **[Astrophysical Journal] Helmut A. ABT & Eleanor S. BIGGS** [comps.]. *The Astrophysical Journal: General Index to Volumes 101-135 (January 1945 to May 1962) and to the Supplement Series, Volumes 1-6 (March 1954 to May 1962)*. By Authors and Subjects. Chicago: University of Chicago Press, 1964. 8vo. 186 pp. Professionally rebound in black library buckram, gilt-stamped spine title, original wrappers preserved. A few library markings from U.S. Naval Observatory. Near fine. Z1048 \$ 10
52. **[Astrophysical Journal] Storrs B. BARRETT** [comp.]. *The Astrophysical Journal: A General Index. By Authors and Subjects to Volumes I to XXV (January 1895 to June 1907)*. Chicago: University of Chicago Press, 1908. 8vo. iii, (iv), 133 pp. Printed wrappers; rear cover a bit chipped, some minor stains. Title info inked on spine. Very good – nice copy. Z1045 \$ 15
53. **[Astrophysical Journal] Storrs B. BARRETT** [comp.]. *The Astrophysical Journal: A General Index. By Authors and Subjects to Volumes XXVI-L (July 1907, to December 1919)*. Chicago: University of Chicago Press, [circa 1919]. 8vo. iii, 111 pp. Printed wrappers; light wear to covers. Very good. Z1046 \$ 15
54. **[Astrophysical Journal] Alice JOHNSON**, et al. [comps.]. *The Astrophysical Journal: General Index to Volumes 76-100 (July, 1932, to November, 1944)*. By Authors and Subjects. Chicago: University of Chicago Press, [circa 1944]. 8vo. 146 pp. Professionally rebound in dark blue library buckram, gilt-stamped spine title, original wrappers preserved. A few library markings from Cornell University. Near fine. Z1047 \$ 10
55. **Astrophysikalischen Observatoriums zu Postdam. Publikationen des Astrophysikalischen Observatoriums zu Postdam. In Kommission bei Wilhelm Engelmann in Leipzig.** (Leipzig): (Breitkopf & Härtel, n.d.). (280 x 205 mm). Single sheet printed on both sides. Very good. Z1049

\$ 16

Lists author, short title and prices for the first eighteen volumes, Nos. 1-53.

56. **AUGUSTINUS DE FERRARIA; Robert Andrews** (editor). *Quaestiones super librum Praedicamentorum Aristotelis*. Edited with an introduction by Robert Andrews. Stockholm: Almqvist & Wiksell Internat., 2000. Series: *Acta Universitatis Stockholmiensis; Studia Latina Stockholmiensia*, 45. 8vo. xxxviii, 308 pp. Index. Printed wrappers. INSCRIBED BY THE EDITED TO David C. Lindberg. Fine.

\$ 30

“Augustinus de Ferrara was an Italian Franciscan active at the University of Ferrara in the fifteenth century. His commentary on Aristotle’s Categories, one of his two surviving philosophical works, was written before 1420. Composed in the form of questions, the work reveals that Augustinus was a realist and a follower of John Duns Scotus...” ISBN: 9122018972

Life of Avicenna

57. **[AVICENNA] Abd Al-Wahid Ibn Muhammad Juzajani; William E. GOHLMAN**. *The Life of Ibn Sina; a critical edition and annotated translation*. Albany: State University of New York Press, 1974. Series: *Studies in Islamic Philosophy Science*. 8vo. 163 pp. Index. Brick red cloth. Ink ownership signature of David C. Lindberg. ISBN: 087395226X \$ 350

58. **B. Westermann & Co.** *Bibliotheca Historico-Naturalis, Physico-Chemica et Mathematica. A Classified Catalogue of all Books on Natural History, Chemistry and Mathematics Published in*

Germany... 1867-1869. 6 issues. New York: B Westermann, 1867-1869. 6 bookseller catalogs. 8vo. Multiple paginations. Printed wrappers; wrappers worn and chipped, especially spines (issues disbound or starting). Ownership signatures on front covers. Good. Z1126 \$ 80

59. **BABBAGE, Charles** (1792-1871)] **Anthony HYMAN.** *Charles Babbage: Pioneer of the Computer.* Princeton: Princeton University Press, 1982. FIRST EDITION. 8vo. xv, 287 pp. Half-tone frontis. port. of Babbage, plates, two figs., index. Dark green paper boards, gilt-stamped spine title, dust-jacket. Fine. ISBN: 0691083037 Z1051 \$ 12

60. **BACON, Francis.** *Advancement of Learning and Novum Organum. With a special introduction by James Edward Creighton. Revised edition.* New York: Willey Book, 1944. 8vo. xii, 476 pp. Frontispiece. Black cloth; a bit faded, corners bumped. Ink ownership signature of David C. Lindberg. \$ 6

61. **BACON, Francis.** *Bacon's Essays with Annotations by Richard Whately, and notes and a glossarial index by Franklin Fiske Heard.* Boston: Lee and Shepard, 1868. 8vo. xlix, 641 pp. Index. Original maroon pebbled cloth; very worn, shaken, corners showing, spine torn. Reading copy. As is. \$ 8

62. **BACON, Francis.** *The Works of Francis Bacon. Collected and edited by James Spedding, Robert Leslie Ellis, and Douglas Denon Heath. Vol. V. Translations of the Philosophical Works, vol. II. New edition.* London: Longmans & Co., ... 1889. Vol. V only (of 7). 8vo. x, 665 pp. Index. Original brown blind-stamped cloth, gilt spine titles. Ownership marks of William Coleman, Oxford (1966), and possibly N.J. Nortman[?] [1919]. Fine.

\$ 40

Contents: ... as parts of the Instauration Magna. "Of the Dignity and Advancement of Learning. Books VII.-IX." Natural and Experimental History [including, History of the winds, preface to history of heavy and light, sympathy and antipathy, sulphur, mercury, and salt, fragment of abecedarium Naturae, History of Life and Death, Dense & Rise, Inquiry Respecting the Magnet, Topics of Inquiry Respecting Light and Luminous Matter, Thoughts on the Nature of Things, On the Ebb and Flow of the Sea, On Principles and Origins, according to the Fables of Cupid and Coelum, Description of the Intellectual Globe, Theory of the Heaven.

63. **BACON, Francis; Lisa JARDINE.** *Francis Bacon, Discovery and the Art of Discourse.* Cambridge: Cambridge University Press, (1974). 8vo. viii, 267 pp. Index; ink underlining, sometimes heavy. Cloth, dust-jacket. Ink ownership signature of David C. Lindberg. Good. ISBN: 0521204941 / 0-521-20494-1

\$ 25

"Dr. Jardine finds a unifying principle in Bacon's preoccupation with 'method', the evaluation and organisation of information as a procedure of investigation or of presentation. She shows how such an interpretation makes consistent (and often surprising) sense of the whole corpus of Bacon's writings: how the familiar but misunderstood inductive method for natural science relates to the more informal strategies of argument in his historical, thical, political and literary work. There is a substantial and valuable study of the intellectual Renaissance background from which Bacon emerged and against which he reacted. Through a series of detailed comparisons and contrasts we are led to appreciate the true originality and ingenuity of Bacon's own views and also to discount the more superficial resemblances between them and later developments in the philosophy of science."

64. **BACON, Francis; Antonio Pérez-Ramos.** *Francis Bacon's Idea of Science and the Maker's Knowledge Tradition.* Oxford: Clarendon Press, 1988. 8vo. xi, 334 pp. Index. Cloth, dust-jacket. Ink ownership signature of David C. Lindberg. Fine. RARE. \$ 200
 "This work provides an original account of Francis Bacon's conception of natural inquiry. Perez-Ramos sets Bacon in an epistemological tradition that postulates an intimate relation between objects of cognition and objects of construction, and regards the human knower as, fundamentally, a maker. By exploring the background to this tradition, and contrasting the responses of major philosophers of the 17th century with Bacon's own, the book charts Bacon's contribution to the modern philosophy of science." ISBN: 0198249799 / 0-19-824979-9
65. **BACON, Francis.** *The Works of Francis Bacon ... Popular edition, based upon the complete edition of Spedding, Ellis, and Heath.* Boston: Houghton, Mifflin, [no date]. [after 1881; ca. 1890]. 2 volumes. 8vo. Numerous paginations. Index. Original blind and gilt-stamped maroon cloth; inner hinges repaired. Ownership signature of William Coleman, Philadelphia, 1967. Very good. \$ 45
66. **[BACON, Francis] F.H. ANDERSON.** *The Philosophy of Francis Bacon.* New York: Octagon Books, 1975. 8vo. vii, 312 pp. Index. Red cloth. Ink ownership signature of David C. Lindberg. Fine. ISBN: 0374902534 / 0-374-90253-4 \$ 20
67. **[BACON, Francis] Benjamin Julian MARTIN.** *Francis Bacon, the State, and the Reform of Natural Philosophy.* Cambridge: Cambridge University Press, (1992). 8vo. xiii, 236 pp. Index. Cloth, dust-jacket. Ink ownership signature of David C. Lindberg. Fine. Scarce. ISBN-10: 0521382491 / ISBN-13: 978-0521382496 \$ 45
68. **BACON, Roger.** *The Opus Majus of Roger Bacon. A translation by Robert Belle Burke.* New York: Russell & Russell, 1962. 2 vols. 8vo. xiii, 418; 419-840 pp. Frontispieces, 6 illus., figs., index; heavily ink underlined and with occasional notes by Lindberg. Brick red cloth. Ink ownership signature of David C. Lindberg. Good (noting markings). \$ 20
69. **BACON, Roger.** *The Opus Majus of Roger Bacon. Edited, with introduction and analytical table by John Henry Bridges.* Frankfurt: Minerva, 1964. 2 vols. Reprint. 8vo. clxxxvii, 404; 568 pp. Figs., index; heavily ink underlined and with frequent scholarly notes by Lindberg. Blue cloth. David C. Lindberg's copy [not signed] with his extensive notes and corrections to the text. Good (noting markings). \$ 75
 This copy will interest the scholar who wants to benefit from Lindberg's annotations and see his views on this text. I believe he was comparing the text to an original manuscript.
70. **BAEYER, Johann Jacob (1794-1885)] Ernst BUSCHMANN [ed.].** *Aus Leben und Werk von Johann Jacob Baeyer.* Frankfurt am Main: Des Instituts für Angewandte Geodäsie, 1994. Series: Nachrichten aus dem Karten- und Vermessungswesen, Reihe I, Heft Nr. 12. 8vo. 186 pp. Illustrations (including several in color), maps, index. Green cloth, gilt-stamped cover and spine titles. Fine. Z1053 \$ 65
71. **BAILEY, Martha J.** *American Women in Science: A Biographical Dictionary.* Denver, Santa Barbara, Oxford: ABC-CLIO, (1998). Fourth printing. 8vo. xxi, 463 pp. Illustrations (half-tone vignette portraits of selected scientists), index. Navy blue paper boards with silver stamped spine title, dust-jacket. Fine. ISBN: 0874367409 Z1054 \$ 10

72. [BAILEY, Solon Irving (1854-1931)] Harlow SHAPLEY. "Professor Solon I. Bailey." Offprint from: *Science*, July 10, 1931. Vol. 74, No. 1906, pp. 29-30. (240 x 165 mm). 3 pp. Printed wrappers. Rubber stamps. Fine. Z1786 \$ 10
73. [BAILY, Francis (1774-1844)] John HERSCHEL. (1792-1871). "Memoir of Francis Baily, Esq. Late President of the Society." Extract from: *Memoirs of the Royal Astronomical Society*, Vol. XV, 1844, pp. 311-358. [London]: [RAS, 1844]. 4to. 48 pp. Bound in modern black linen, gilt-stamped cover title. Includes an 88 item chronological bibliography of Baily's publications. Fine. Z1057 \$ 75
74. BAKHUYZEN, Hendricus Gerardus van de Sande (1838-1923). *Catalogus van de Boeken Op 1 Januari 1877 Aanwezig in de Bibliotheek der Sterrenwacht te Leiden*. [Bound with four supplements covering the period between 1877-1901: *Catalogus van de Boeken Aanwezig in de Bibliotheek der Sterrenwacht te Leiden* (1881-1902)]. Gravenhage: M. Nijhoff, 1877-1902. 5 issues in one volume. Small 4to. vii, 211; 74; 98; [i], 198; vii, 152 pp. Indexes. Half calf with marbled paper sides, gilt-stamped spine title, calf corners; extremities a bit worn, faint remnant of former sticker on spine. Very good. Z1058 \$ 225
Although there was a Leiden Observatory in 1632, these catalogs represent the work and holdings of the revived Leiden Observatory which began operation in about 1860.
75. [Bakken] Judith OVERMIER & John Edward SENIOR. *Books and Manuscripts of the Bakken*. Metuchen and London: Scarecrow Press, 1992. FIRST EDITION. 4to. xvii, 512 pp. 4 full color plates, 28 full page illustrations, index. Red cloth, gilt-stamped black cover and spine labels; label a bit rubbed. Includes full collations. Near fine. ISBN: 0810825708 Z1059 \$ 22
76. BALL, Robert Stawell (1840-1913); William Valentine BALL [ed.]. *Reminiscences and Letters of Sir Robert Ball. With a Photogravure Frontispiece and Eight Plates*. Boston: Little, Brown, 1915. First American Edition. 8vo. xiv, (xv), 408 pp. Photogravure frontis. port. of Sir Robert Ball with facsimile autograph, 8 plates, index. Dark blue cloth, gilt-stamped cover and spine titles, t.e.g.; cloth darkened (spine title nearly obscured), frontis. and interior pages water-stained (frontis. image very slightly affected, text completely unaffected). Good. Includes an appendix with a bibliographical essay on Sir Robert Ball's Mathematical papers by E.T. Whittaker. Z1062 \$ 20
77. [BALLANCHE, Pierre-Simon] Alfred MARQUISET. *Ballanche et Mme d'Hautefeuille. Lettres inédites de Ballanche, Chateaubriand, Sainte-Beuve, Mme Récamier, Mme Swetchine, etc.* Paris: Honoré Champion, 1912. Sm. 8vo. 269 pp. Frontis. port., index. Maroon buckram. Very good. \$ 18
78. [BANKS, Joseph (1743-1820)] Hector Charles CAMERON (1878-1958). *Sir Joseph Banks, K.B., P.R.S.: The Autocrat of the Philosophers*. London: Batchworth Press, (1952). 16mo. xx, 341 pp. Half-tone frontis. port. of Banks, 9 plates, biographical chronology, index. Dark blue cloth, gilt-stamped spine title, dust-jacket; jacket a bit soiled, spine ends a bit chipped. Very good. Z1063 \$ 10
79. BARKOW, Jerome H. *Darwin, Sex, and Status: Biological Approaches to Mind and Culture*. Toronto...: University of Toronto Press, (1989). 8vo. xx, 453 pp. Bibliog., 2 indexes. Gilt-stamped red cloth, dust jacket. Fine. Scarce. ISBN: 080205773X \$ 18

80. [BARNARD, Edward Emerson (1857-1923)] Edwin B. FROST. *Biographical Memoir [of] Edward Emerson Barnard, 1857-1923*. Washington: Government Printing Office, 1927. Series: *Memoirs of the National Academy of Sciences*, Vol. XXI, Fourteenth Memoir. Large 8vo. 21 pp. Frontis. port. of Barnard with facsimile signature. Printed wrappers. Pages uncut. Very good. Z1788 \$ 35

81. [BARNARD, Edward Emerson (1857-1923)] William SHEEHAN. *The Immortal Fire Within: The Life and Work of Edward Emerson Barnard*. Cambridge: Cambridge University Press, (1995). FIRST EDITION. 8vo. xiv, 429 pp. Half-tone photos, index. Black paper boards, silver stamped spine title, dust-jacket. Fine. Rare. ISBN: 0521444896 Z1065



\$ 275

“This, the first full-length biography of E.E. Barnard, tells the remarkable tale of endurance and achievement of one of the leading astronomers of the late nineteenth century and early twentieth century.. Barnard scoured the heavens endlessly, leaving an astonishing legacy of observations - of planets, satellites, comets, double stars, bright and dark nebulae, and globular clusters - that make him one of the greatest observers of all time” - preliminary.

82. **Barnes & Company.** *Grand Illustrated Catalogue of the Educational Publications and School Furniture, Apparatus, Etc., of A.S. Barnes & Company, New York and Chicago*. New York and Chicago: A.S. Barnes, n.d. [circa 1878]. 8vo. 48 pp. Frontis. woodcut relief map of North America, illustrations, indexes. Quarter brown cloth with pictorial boards; front hinge nearly broken, extremities soiled, large dark stain to bottom edge throughout. Previous owner's inked signature and mounted newspaper clip on f.f.e.p. Good. Features many period advertisements and illustrations. Z1026 \$ 12

83. **BARROW, Isaac.** *The Geometrical Lectures of Isaac Barron. Translated, with notes and proofs, and a discussion of the advance made therein on the work of his predecessors in the infinitesimal calculus by J.M. Childs*. Chicago and London: Open Court, 1916. Series: *Open Court Series of Classics of Science and Philosophy*, no. 3. Sm. 8vo. xiv, 218 pp. Frontis., facs. pl., numerous figs., index. Original olive green cloth printed in black; front hinge cracked; rubbed. Bookplate of Alan E. Shapiro. \$ 35

84. [BARUS, Carl (1856-1935)] R. B. LINDSAY. *Biographical Memoir of Carl Barus, 1856-1935*. Washington: National Academy of Sciences, 1943. Series: NAS, *Biographical Memoirs*, Vol. XXII, Ninth Memoir. 8vo. 171-213 pp. Frontis. port. of Barus with facsimile signature. Printed wrappers. Fine. Z1791 \$ 10

85. **BAUMAN, Michael** [ed.]. *Man and Creation; Perspectives on Science and Theology*. Hillsdale: Hillsdale College Press, (1993). Series: *The Christian Vision*. 8vo. vi, 306 pp. Index. Printed wrappers. Very good. ISBN: 091630874X / 0-916308-74-X

\$ 6

Includes: Numbers, Ronald L., “The Evolution of Scientific Creationism.”

86. [BAUSCH, Edward (1854-1944)] **Edward Reuben FOREMAN** (1868-1936). *Edward Bausch: An Appreciation... with Brief Biographical Notes*. New York: Society of the Genesee, 1933. 8vo. 27, [2] pp. 3 half-tone plates. Quarter silver cloth with light blue paper boards, silver stamped cover title; covers a bit faded, some foxing. Very good. Scarce. Z1068 \$ 45
87. [BAUSCHINGER, Julius (1860-1934)] **Josef HOPMANN**. "Nachruf auf Julius Bauschinger." In: *Abdruck aus den Berichten der Mathematisch Physischen Klasse der Sächsischen Akademie der Wissenschaften zu Leipzig*, LXXXVI Band. Leipzig: S. Hirzel, 1934. (225 x 155 mm). (299)-306 pp. Printed wrappers. Previous owner's penciled signature on front cover. Fine. Z1792 \$ 9
88. **BEDE**. *Opera Historica; with an English translation by J.E. King. Ecclesiastical History of the English Nation*. Cambridge: Harvard University Press, (1979, 1990). Series: *Loeb Classical Library*, 246, 248. Two volumes. 12mo. xxxv, 505; 517 pp. Frontis., folding map, index. Cloth, dust-jackets. Fine set, like new. ISBN: 0674992717; 0674992733 \$ 40
89. **BEER, Arthur**. *Vistas in Astronomy. Volume II. Edited by ...* Oxford: Pergamon Press, (1969). 8vo. viii, 273 pp. Figs., index. Cloth, dust-jacket; jacket worn. Ink ownership signature of David C. Lindberg. Good +. Scarce. \$ 25
 With contributions by A. Thom, W. Hartner, L. Essen, B.A. Bol & J.S. Derr, Y. Kozai, A. Lallemand, J. Stock, P.J. Treanor, L.O. Lodén, K. Rudnicki, V.V. Sobolev, V. Vanysek, and Su-Shu Huang. Hartner's paper: "Galileo's Contribution to Astronomy."
90. [BEHAIM, Martin (1459-1507)] **John G. MORRIS**. *Martin Behaim, the German Astronomer and Cosmographer of the Times of Columbus: Being the Tenth Annual Discourse before the Maryland Historical Society, on January 25th, 1855*. Baltimore: John Murphy, 1855. Original first printing. Small 4to. 48 pp. Two color title (printed in red and black), title vignette. Printed wrappers; extremities a bit soiled, spine missing (still bound). Previous owner's inked signature on front cover. Good. Z1793 \$ 25
91. **BENSON, Robert L., & Giles CONSTABLE** [eds.]. *Renaissance and Renewal in the Twelfth Century*. Cambridge: Harvard University Press, (1982). Thick 8vo. xxx, 781 pp. 110 figs., index. Printed wrappers. Ink ownership signature of David C. Lindberg. Very good. Giles Constable is a professor emeritus with the Institute for Advanced Study at Princeton University. \$ 25
 "The Renaissance of the Twelfth Century, by Charles Homer Haskins, was published in 1927, and with it a new concept, which had been only imprecisely anticipated by earlier writers, was introduced into the accepted vocabulary of medievalists. It has remained there ever since, if not because everyone regards it as an appropriate category of interpretation, at least because it is 'well protected by a tacit statute of limitations on changing widely accepted terms', as one of the contributors observes in this volume. The papers here were presented at a conference held at Cambridge, Massachusetts, to commemorate the fiftieth anniversary of Haskin's publication, but it is a great deal more than a collection of the Church ... By any standard, the book is a brilliant success. It provides a statement of the present understanding of the twelfth-century renaissance which will act as a genuine 'new Haskins', a starting point for further research and an important resource for teaching." Colin Morris (review). ISBN: 0674760867

92. **BELL, Samuel Peter** [comp.]. *A Biographical Index of British Engineers in the 19th Century*. New York and London: Garland, 1975. Series: Garland Reference Library of Social Science, Vol. 5. 8vo. x, 246 pp. Beige cloth, black stamped spine title. Fine. Z1073 ISBN: 0824010787 \$ 40
93. **BERENGARIO DA CARPI, Jacopo**. *A Short Introduction to Anatomy (Isagogae Breves)*. Translated with an Introduction and Historical Notes by L.R. Lind and with Anatomical Notes by Paul G. Roofe. Chicago: University of Chicago Press, (1959). 8vo. xi, 227 pp. Illus., index. Cloth, dust-jacket; jacket extremities worn. Ink ownership signature of David C. Lindberg. Very good. \$ 15
English translation. "A revised and condensed version of the *Commentaria*. This is the work by which Berengario is best known. Includes a description of the valves of the heart." See: Garrison-Morton 368.
94. **[BERKELEY, George (1685-1753)] Thomas Edmund JESSOP (1896-1980)**. *A Bibliography of George Berkeley. With an Inventory of Berkeley's Manuscript Remains by A.A. Luce*. New York: Burt Franklin, (1968). Reprint of the 1934 edition. Series: Burt Franklin: Bibliography & Reference Series 234; Philosophy Monographs Series 21. 8vo. xvi, 99 pp. Index. Red cloth, gilt-stamped spine title. Fine. Over 500 separate entries recorded. Z1076 \$ 40
95. **[BERKELEY, George (1685-1753)] Geoffrey Langdon KEYNES (1887-1982)**. *A Bibliography of George Berkeley, Bishop of Cloyne: His Works and His Critics in the Eighteenth Century*. Oxford: Clarendon Press, 1976. FIRST EDITION. 8vo. xxvii, 285 pp. Fold-out frontis. port. of Berkeley, 108 title pages reproduced in full page figs, indexes. Red cloth, gilt-stamped spine title, dust-jacket. Near fine. ISBN: 0198181612 Z1077 \$ 90
George Berkeley, aka 'Bishop Berkeley', was an Anglo-Irish philosopher whose primary achievement was the advancement of a theory he called "immaterialism."
96. **BERMAN, Harold J.** *Law and Revolution; The Formation of the Western Legal Tradition*. Cambridge: Harvard University Press, (1983). Thick 8vo. xii, 657 pp. Index. Printed wrappers. Very good. \$ 16
"The roots of modern Western legal institutions and concepts go back nine centuries to the Papal Revolution, when the Western church established its political and legal unity and its independence from emperors, kings, and feudal lords. Out of this upheaval came the Western idea of integrated legal systems consciously developed over generations and centuries." ISBN: 0674517768 / 0-674-51776-8
97. **Bernard Quaritch, Ltd.** *A Catalogue of Books & Periodicals on Medicine & Herbs, Astronomy, Chemistry, Engineering, Mathematics, Meteorology, Mining, Photography, Physics, etc. Ranging from the 15th to the 20th Century*. No. 700. [with:] *A Catalogue of Books & Journals on Astronomy, Chemistry, Mathematics, Medicine & Surgery, Physics, Etc.* No. 724. London: Bernard Quaritch, 1952-1954. 2 issues. 8vo. 72; 68 pp. Printed wrappers. Nearly two thousand items listed. Quaritch's catalogues are of considerable bibliographical value. Very good. Z1078 \$ 20
98. **[BESSEL, Friedrich Wilhelm (1784-1846)] J.F.W. HERSCHEL** "A Brief Notice of the Life, Researches, and Discoveries of Friedrich Wilhelm Bessel." Offprint from: *Annual Report of the Royal Astronomical Society*. London: George Barclay, 1847. (225 x 145 mm). 16 pp. Self-wraps. Pages uncut. Fine. Z1794 \$ 15

99. **[BESSEL, Friedrich Wilhelm (1784-1846)] Johann A. REPSOLD.** "Friedrich Wilhelm Bessel." In: *Astronomische Nachrichten*, [no date]. Band 210, Nr. 5027-28, Nr. 11-12. 4to. (161)-216 col. One loose full-page plate with two portraits of Bessel. Self-wraps; port. edge worn with tears. Very good. Z1795 \$ 15
100. **[BESSEL, Friedrich Wilhelm (1784-1846)] D. WATTENBERG.** "Friedrich Wilhelm Bessel." In: *Die Himmelswelt*, 44. Jahrgang, Juli / August 1934. Heft 7/8. Berlin: Ferd. Dümmlers, 1934. (245 x 165 mm). (125)-168 pp. 2 plates. Printed wrappers. Fine. Z1796 \$ 15
101. **BESTERMAN, Theodore (1904-1976).** *Physical Sciences: A Bibliography of Bibliographies. Volumes 1 & 2.* Totowa, N.J.: Roman and Littlefield, 1971. Two volume set. Series: *The Besterman World Bibliographies*. 8vo. (xii), 318; (iv), 319-677 pp. Blue-gray cloth, gilt-stamped spine title; rear cover to volume 1 a bit soiled. Very good. Z1079 \$ 12
102. **BINDOCCI, Cynthia Gay.** *Women and Technology: An Annotated Bibliography.* New York and London: Garland Publishing, 1993. Series: *Women's History and Culture*, Vol. 7 and *Garland Reference Library of Social Science*, Vol. 517. 8vo. xiv, 229 pp. 19 half-tone photos, indexes. Purple cloth, gilt-stamped cover and spine titles. Near fine. ISBN: 0824057899 Z1081 \$ 12
103. **[BIRKELAND, Kristian (1867-1917)] Lucy JAGO.** *The Northern Lights.* New York: Alfred A. Knopf, 2001. First American Edition. 8vo. xvii, 297, [2] pp. Double frontis. map, 5 illustrations, index. Quarter navy paper spine with green paper boards, gilt-stamped spine title, dust-jacket. Fine. ISBN: 0375409807 Z1083 \$ 12
104. **[BISCHOFFSHEIM, Raphael (1823-1906)] Louis LIARD.** "Raphael Bischoffsheim." In: *Annales de L'Observatoire de Nice... Tome XI.* Paris: Gauthier-Villars, 1908. (295 x 230 mm). vii pp. Large port. of Bischoffsheim. Pages disbound. Very good. The engraved portrait of Bischoffsheim has been extracted and is in excellent condition. Bischoffsheim gave the observatory at Nice to the University of Paris. Z1798 \$ 12
105. **BISHOP, Roy L.** "Joseph Everett and the King's College Observatory." Offprint from: *Journal of the Royal Astronomical Society*, Vol. 72, No. 3, pp. 138-148, June 1978. Canada: *Journal of the Royal Astronomical Society*, 1978. (230 x 150 mm). 11 pp. Port. of Everett. Printed wrappers. Ownership signature of noted American astronomer Joseph Ashbrook (1918-1980). Signed by the author. Fine. Z1799 \$ 10
106. **BLACKER, C. P.** *Eugenics: Galton and After.* London: Gerald Duckworth, (1952). FIRST EDITION. 8vo. 349 pp. Frontis., photos, diagrams, tables, index. Navy cloth, gilt-stamped spine title, dust-jacket. Near fine. \$ 20
107. **BOHN, Henry George (1796-1884).** *Henry G. Bohn's Catalogue of Books. Vol. I. Containing Natural History, Books of Prints, Science, Language, Bibliography, Oriental & Northern Literature, Old English Histor[ians], Early Voyages, &c., Games, etc.* [with:] *New, Valuable, and Most Important Books, Offered at Very Reduced Prices.* London: (Harrison and Co.), 1848. 8vo. (iv), 467; 112 pp. Frontis. illus. of facade of Bohn building, decorative title, index. Rebound in amber cloth, gilt-stamped leather spine label, a.e. marbled; opening pages, including frontis. and title, soiled and wet-stained (text legible). Very good. Z1087 \$ 30

108. **BLACKWELL, Richard J.** [comp.]. *A Bibliography of the Philosophy of Science, 1945-1981*. Westport, CT & London: Greenwood Press, (1983). First printing. Thick 8vo. xviii, 585 pp. Index. Tan cloth, black stamped cover and spine titles. Over 7,300 citations. Fine. Z1085 ISBN: 0313231249 \$ 25

109. **BODIN, Jean; Ann BLAIR.** *The Theater of Nature; Jean Bodin and Renaissance Science*. Princeton: Princeton University Press, (1997). 8vo. xiv, 382 pp. 6 figs., index. Cloth, dust-jacket; jacket edge-worn. Very good. Very scarce.

\$ 50

The *Theater of Nature* is histoire totale of the last work of the political philosopher Jean Bodin, his *Universae naturae theatrum* (1596). Through Bodin's work Ann Blair explores the fascinating and previously little known world of late Renaissance natural philosophy." Review: "Jean Bodin (1529/30-1596) is an enigmatic, prolific writer of works in both Latin and in French. His *Universae naturae theatrum* [on early modern science] while influential in the seventeenth century, is rarely read today. . . . [Ann Blair corrects this in her] in-depth study of methods, modes of argument, metaphorical imagery, philosophy, theology, science, and reader response to Bodin's 633-page Latin work on natural philosophy. Hers is an exemplary model of a thorough and masterful, multi-faceted history of one book." -- Seventeenth-Century News." ISBN: 0691056757

110. **BOHR, Niels** (1885-1962). *Open Letter to the United Nations. June 9th, 1950*. Copenhagen: J.H. Schultz Forlag, 1950. 8vo. 13 pp. Printed wrappers. Near fine. Z1801 \$ 20

111. **BOLTON, Henry Carrington** (1843-1903). *A Catalogue of Scientific and Technical Periodicals. 1665-1895. Together with Chronological Tables and a Library Check-List. Second Edition*. New York: Johnson Reprint Corporation, (1965). Reprint of the 1897 second edition. Thick 8vo. vii, 1247 pp. Navy cloth, silver stamped spine title. A few black library stamps (including title and fore-edge). Near fine. Over 8,600 titles cited. Z1090 \$ 40

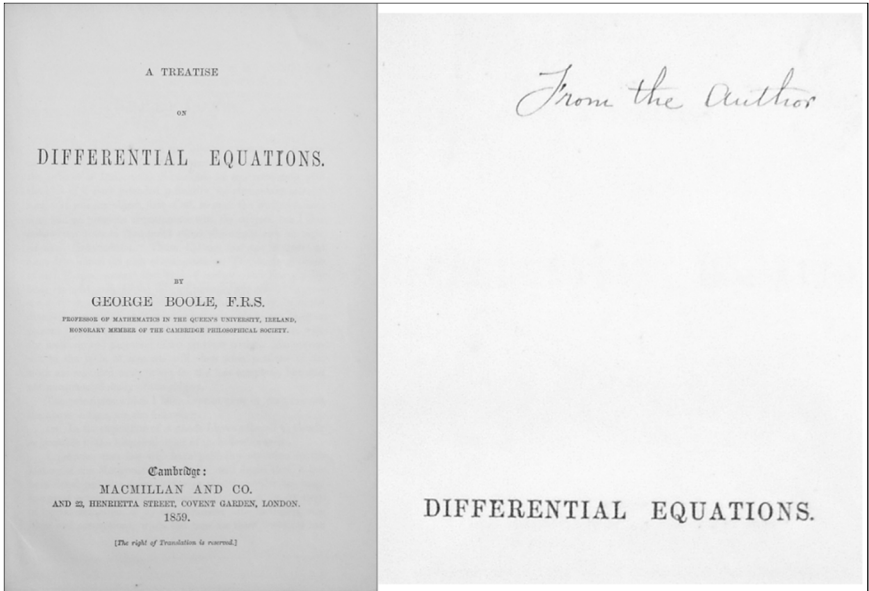
112. **BOLTON, Henry Carrington.** "A Select Bibliography of Chemistry, 1492-1897. Section VIII: Academic Dissertations." [Within]: *Smithsonian Miscellaneous Collections*, Vol. XLI, 1174. Washington: Smithsonian Institution, 1902. Thick 8vo. Multiple paginations. 3 plates, indexes. Maroon library buckram, gilt-stamped spine title. Former library copy with the usual markings. Very good. Z1091

\$ 50

This item contains a large section consisting of Bolton's "A Select Bibliography of Chemistry, 1492-1897. Section VIII: Academic Dissertations." (1901). In addition there are sections on: Index to the literature of Thallium, 1861-1896; Zirconium (1899); Langley & Very, On the Cheapest Form of Light (1901); List of Observatories (1902); Literature of the Spectroscope, 1887-1900; Analytical Chemistry of Manganese, 1785-1900, by Henry P. Talbot and John W. Brown; Bolton, Chemical Societies of the Nineteenth century.

113. **BOLTON, Sarah Knowles** (1841-1916). *Sarah K. Bolton: Pages from an Intimate Autobiography. Edited by Her Son. Privately Printed*. Boston: Thomas Todd Company, 1923. One of 210 copies printed. 8vo. viii, 155 pp. Gravure frontis. port. of Bolton with facsimile autograph and tissue guard, plates; front free endpaper removed. Dark green cloth, gilt-stamped cover and spine titles. Bolton wrote Famous Men of Science (1890) which includes biographical chapters on Galileo, Newton, William and Caroline Herschel. Very good. Z1092 \$ 40

114. **BONELLI, Maria Luisa Righini; Thomas B. SETTLE.** *The Antique Instruments at the Museum of History of Science in Florence.* Florence: Arnaud, (ca.1978). Istituto e museo di storia della scienza. Expanded version over 1973 issue. Sm. 12mo. 164, [6] pp. Profusely illustrated with plates, many in color. Color card wrappers; rear cover stained, rubbed. From the collection of Alan E. Shapiro. Very good -. \$ 20
115. **BONO, James J.** *The Word of God and the Languages of Man; Interpreting Nature in Early Modern Science and Medicine.* Madison: University of Wisconsin Press, 1995. 8vo. Printed wrappers. Fine. Ink ownership signature of David C. Lindberg. ISBN: 0299147940 / 0-299-14794-0 \$ 14



"From the Author"

116. **BOOLE, George** (1815-1864). *A Treatise on Differential Equations* [with] *Treatise on Differential Equations. Supplementary Volume.* Cambridge: Macmillan, 1859-65. 2 volumes. 8vo. xv, [1 blank], 494; xi, [1], 235, [1 blank], 53, [ads 2] pp. Vol. 1 folding plate. I: Original double blind-ruled pale brown cloth, gilt-stamped spines; spine ends frayed, inner hinges cracked; II [Supple.]: Original double-ruled green cloth, gilt-stamped spines; 1 signature starting, heavily faded with spine ends worn, joints splitting. INSCRIBED "FROM THE AUTHOR" at Vol. 1 half-title. Vol. 1 errata slip and ownership signature of J. Blusson [or similar to Zhasor?], 1939. Vol. 2 title-page rubber stamp of Dr. George F. McEwin. Good.

\$ 1250

FIRST EDITION of Boole's insightful works on differential equations and symbolic logic, with the rare accompanying supplementary volume.

"George Boole is today best remembered for his contributions to logic—as a man who, by breaking with the traditional, syllogistic methodology expounded in the logic textbooks, initiated the modern, mathematical study of logic" (Ewald, p. 442).

“There is an aspect of Boole’s work that is not closely related to his treatises in logic or the theory of sets but which is familiar to every student of differential equations. This is the algorithm of differential operators, which he introduced to facilitate the treatment of linear differential equations. If, for example, we wish to solve the differential equation $ay + by + cy = 0$, the equation is written in the notation $(aD^2 + bD + c)y = 0$. Then, regarding D as an unknown quantity rather than an operator, we solve the algebraic quadratic equation $aD^2 + bD + c = 0$ There are many other situations in which Boole, in his *Treatise on Differential Equations* of 1859, pointed out parallels between the properties of the differential operator (and its inverse) and the rules of algebra. British mathematicians in the second half of the nineteenth century were thus again becoming leaders in algorithmic analysis, a field in which, fifty years earlier, they had been badly deficient” (Hook & Norman 225).

“Boole stands somewhat apart from his three algebraic predecessors. Unlike them, he was not educated at Cambridge. . . . apart from a few years of elementary school, George Boole was entirely self-educated” (Ewald, p. 442).

“Boole’s scientific writings consist of some fifty papers, two textbooks, and two volumes dealing with mathematical logic. The two textbooks [including the present one] remained in use in the United Kingdom until the end of the century. They contain much of Boole’s original work, reproducing and extending material published in his research papers” (*DSB*, II, p. 294).

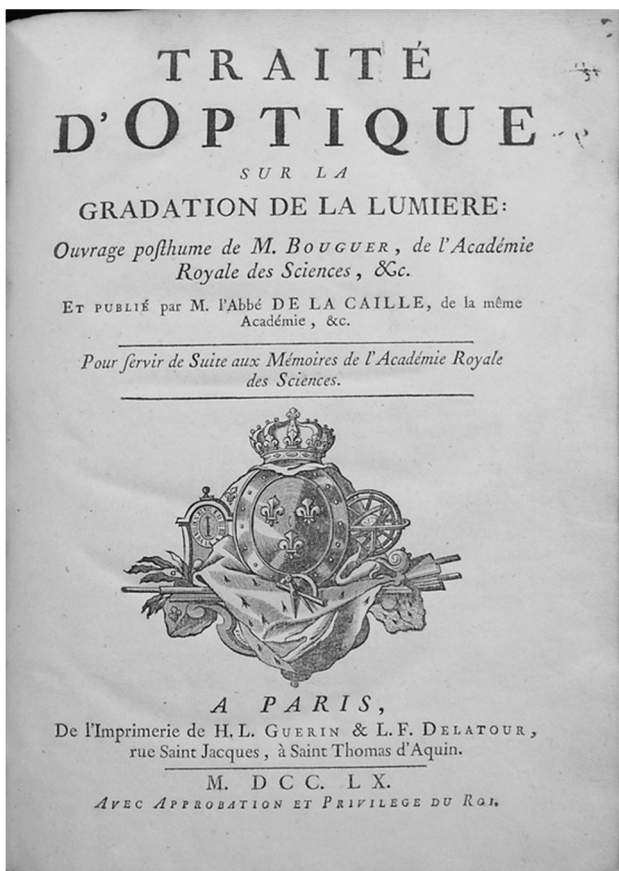
PROVENANCE: Dr. George F. McEwin (1882-1972) pioneered “phases of physical oceanography which had attracted worldwide recognition.” Born in Manchester, Iowa, studied at Iowa State College in Ames, and then attended Stanford University, graduating with his baccalaureate degree and Phi Beta Kappa honors in 1908. He then pursued his Ph.D. in physics and mathematics also at Stanford. “McEwin was a pioneer in the U.S. in the field of dynamical and physical oceanography. Although his later studies often involved development and application of theory, his first paper (1910) was a more descriptive preliminary report on hydrographic work carried on by the then Marine Biological Station of San Diego. In this paper he noted the occurrence of unseasonably cold water in a narrow belt along the California coast and cited an explanation based on upwelling of deeper water in replacement of surface waters carried offshore by the wind. In subsequent studies (1912, 1929, 1934) he further developed the explanation for the phenomenon using Ekman’s theory of wind-driven currents, and made several estimates of the rate of upward movement of the nutrient-rich water that is so important in increasing biological productivity in coastal areas.” – In Memoriam July 1975 – Robert S. Arthur Denis L. Fox Carl L. Hubbs Russell W. Raitt, in: *Calisphere*.

✧ Ewald, William Bragg. *From Kant to Hilbert, Volume 1: A Source Book in the Foundations of Mathematics*. Oxford: Oxford University Press, 2005; Hook, Diana H. & Jeremy M. Norman. *Origins of Cyberspace: A Library on the History of Computing and Computer-Related Telecommunications*. Novato, CA: Norman Publishing, 2002.

117. **Boston Atheneum.** *Catalogue of Books in the Boston Atheneum; To Which Are Added The By-Laws of the Institution. And a List of Its Proprietors and Subscribers*. Boston: William L. Lewis, 1827. 8vo. [i], 356 pp. Original brown cloth, printed paper spine label; outer spine hinges worn and chipped (still holding), printing error on p. 51. Bookplate and embossed stamp (on title) of the Library of the University of Vermont. Good. Scarce. Z1096

Alphabetical list of books owned by the Boston Atheneum circulating library. Listed among the "proprietors" are such figures as Nathaniel Bowditch (1773-1838), William Sturgis (1782-1863), and Daniel Webster (1782-1852).

Established the Field of Solar Spectromy



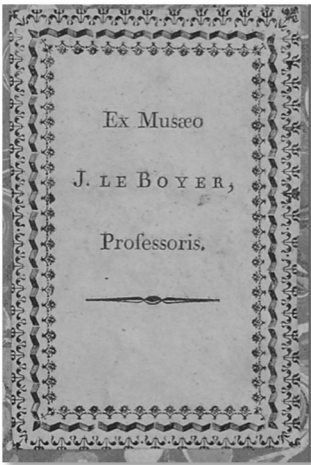
The Father of Photometry

118. **BOUGUER, Pierre** (1698-1758). *Traité d'Optique sur la gradation de la Lumière: Ouvrage posthume de M. Bouguer, de l'Académie Royale des Sciences, &c. Et publié par M. l'Abbé de la Caille, de la même Académie, &c.* Paris: H.L. Guerin & L.F. Delatour, 1760. 4to. xviii, [2], 368 pp. Engraved printer's device on title-page, 7 engraved folding plates. Contemporary full mottled calf, raised bands, gilt-stamped spine panels and spine title; a few minor cover scars, joints starting. Bookplate of Jean-François Le Boyer and Andras Gedeon. Fine.

\$ 2,500

FIRST EDITION. Bouguer, a brilliant French mathematician, astronomer and geophysicist, a child prodigy trained by his father, made some of the earliest recorded measurements in photometry. This is his final (and posthumous) work by the "father of photometry." In 1729 he had published *Essai d'optique sur la gradation de*

la lumière, the object of which was to define the quantity of light lost by passing through a given extent of the atmosphere, and he became the first known discoverer of what is now more commonly known as the Beer-Lambert law. Bouguer found the



light of the sun to be 300 times more intense than that of the moon, and thus made some of the earliest measurements in photometry. "Just before he died, Bouguer completed a much larger book [this one] on photometry, the *Traité d'optique sur la gradation de la lumière...* The *Traité* goes far beyond the *Essai* [d'*optique sur la gradation de la lumière*, (1729)], describing a number of ingenious kinds of photometers, including a method of goniophotometry, and even attempting an elaborate theory of the reflection of light from rough surfaces, although this was not successful. The third and last part of the book, however, gives a valid elementary theory of the horizontal visual range through an obscuring atmosphere, arriving at a law, usually credited to H. Koschmieder, considered to belong to the

twentieth century. It is fair to consider Pierre Bouguer not only the inventor of the photometer but also the founder of an important branch of atmospheric optics." [DSB]. Bouguer's father was Jean Bouguer, a well-known hydrographer who authored a seminal treatise on navigation. Upon his father's death, Pierre—at age 15—succeeded the elder Bouguer as royal professor of hydrography. Pierre also wrote on hydrography.

PROVENANCE: Jean-François Le Boyer (1768-1835), born in Yvetot, was professor of philosophy at Valognes and of mathematics at Nantes. He was the author of, *Traité complet du calendrier*. See: Alfred Mézières, *Lettres, sciences, arts: Encyclopédie universelle du XXe siècle*, 1908. This volume is inscribed, apparently by the owner after Boyer, "Cet ouvrage est porté à 10th par fournier[?] et a 18th au catalogue de fourcier, Nantes, X... 1839 ... Regards,...

☼ DSB Vol. II, pp. 343-44; Graesse I, 510; Norman 286; Wolf II, 167ff. S9394

119. **BOULIGAND, Georges.** *Structure des Théories Problèmes Infinis*. Paris: Hermann & Cie, 1937. Series: *Actualités scientifiques et industrielles*, 548; *Exposés d'histoire et philosophie des sciences*, IX. 8vo. 57, [1], [3] pp. Original printed wrappers; spine end worn. Good. INSCRIBED BY THE AUTHOR to Edmond Henri Bauer (1880-1963).

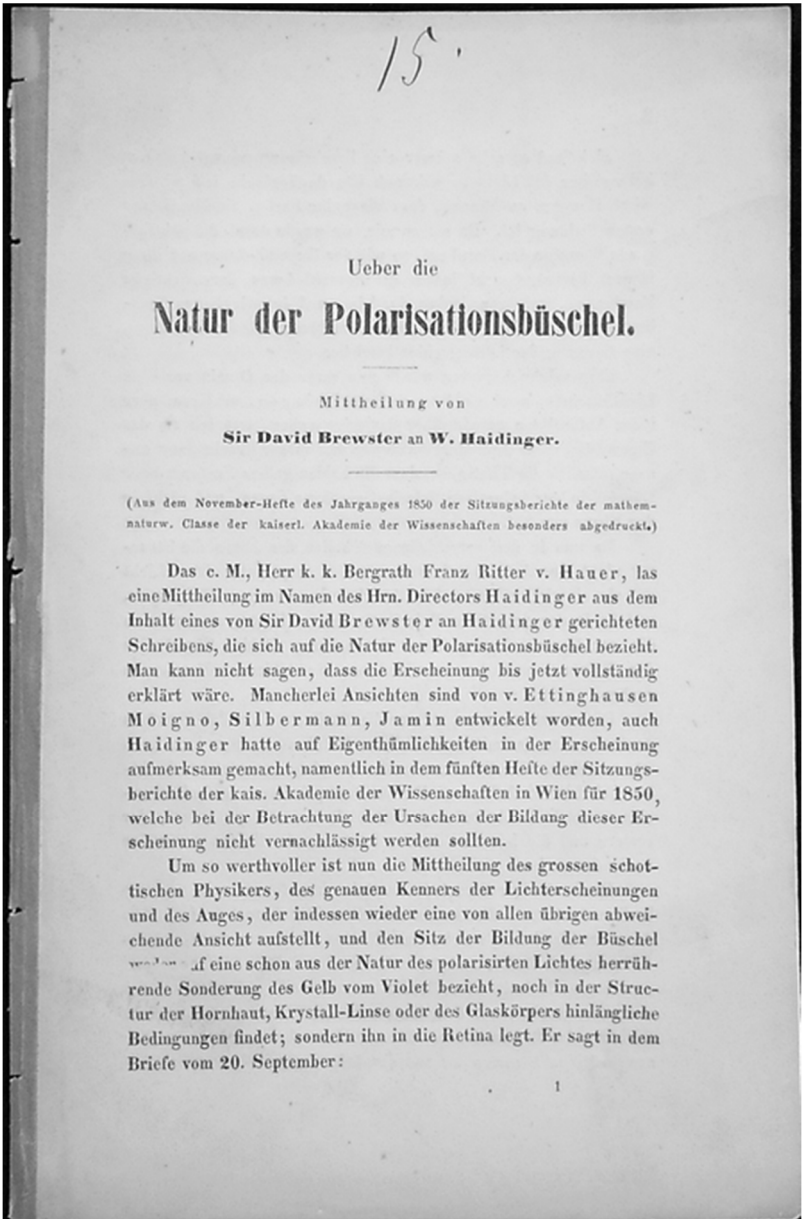
\$ 75

Georges Bouligand (1889–1979) was a French mathematician who introduced paratingent cones and contingent cones. PROVENANCE: Edmond Henri Bauer (1880-1963), French physicist born in Paris, worked at the Ecole Supérieure de Physique et Chimie Industrielles de la Ville de Paris (ESPCI) under Langevin in 1905. See obituary of Bauer by Karl K. Darrow, *Physics Today*, June 1964, page 86.

120. **Bowdoin College.** *A Catalogue of the Library of Bowdoin College; To Which is Added, an Index of Subjects*. Brunswick: Bowdoin College, 1863. 4to. vi, 832 pp. Index. Dark brown cloth, gilt-stamped spine title; spine ends a bit frayed, pages water-stained (text clear and legible). Very good. Z1101 \$ 50

121. **[BOULLIAU, Ismaël (1605-1694)] Robert A. HATCH.** *The Collection Boulliau (BN, FF. 13013-13059): An Inventory. Foreword by Harcourt Brown.* Philadelphia: American Philosophical Society, 1982. FIRST EDITION. 8vo. lxxiii, 598, [1] pp. 3 illustrations (including frontis. port. of Boulliau), index. Navy cloth, gilt-stamped cover facsimile autograph and spine title. The biographical introduction, annotated name index and bibliographical apparatus relates to 17th century science. This book is an inventory of the collection of Ismael Boulliau, a seventeenth-century French librarian, astronomer and priest. Fine. Z1097 ISBN: 0871699842 \$ 30
122. **BOYD, Lyle G.** "Mrs. Henry Draper and the Harvard College Observatory: 1883-1887." Offprint from: *Harvard Library Bulletin*, 1969. Vol. XVII, No. 1, January 1969. (260 x 175 mm). 70-97 pp. Printed wrappers. Fine. Z1804 \$ 10
123. **BOYLE, Robert (1627-1691) & Edward B. DAVIS.** "The Anonymous Works of Robert Boyle and the Reasons Why a Protestant Should not Turn Papist (1687)". [No place] Offprint from: *Journal of the History of Ideas*, 1994. 8vo. Article: pp. 611-629 [i.e. 19] pp. Stapled pages. Very good. Z1102 \$ 10
124. **BOYLE, Robert (1627-1691)] John Farquhar FULTON (1899-1960).** *A Bibliography of the Honourable Robert Boyle, Fellow of the Royal Society.* Oxford: Printed at the University Press by John Johnson, 1932. FIRST EDITION (Reprinted from the *Oxford Bibliographical Society, Proceedings and Papers*, Vol. III, Part I, pp. 1-172). Small 4to. 171, (172) pp. Frontis. port. of Boyle marble bust, plates, index; a few pages marginally water-stained. Later red cloth, gilt-stamped spine title, original printed wrappers bound in. Pages are unopened. Very good. PRESENTATION COPY. Z1103 \$ 75
- This copy, a major contribution to the bibliographical record of Boyle, features the author's presentation inscription on the front wrap: "To Mr. Goodspeed with kind regards, J.F. Fulton." Charles E. Goodspeed (1867-1950) was an influential antiquarian bookseller of Boston, Mass., the proprietor of Goodspeed's Book Shop.
125. **BRAGG, W.H., & W.L. BRAGG.** *X Rays and Crystal Structure.* Third edition. London: G. Bell and Sons, 1918. 8vo. vii, 228 [1] pp. 4 plates, 75 figs., index. Blue cloth; rubbed. Ownership signature "C.G. Fer...[?] Northwood, Mx [Middlesex, U.K.]" Good. \$ 40
126. **BRAHE, Tycho.** *Tycho Brahe's Description of His Instruments and Scientific Work as Given in Astronomiae Instauratae Mechanica (Wandesburgi 1598).* Translated and edited by Hans Raeder, Elis Strömngren, and Bengt Strömngren. Copenhagen: Ejnar Munksgaard, 1946. Large 8vo. 144 pp. Frontispiece, 31 figures. Printed wrappers; front cover and spine ends slightly torn. Inside and outside front cover ownership signatures of William Duane Stahlman and David C. Lindberg. Very good. \$ 125
127. **[BRAHE, Tycho (1546-1601)] C. Doris HELLMAN.** "Was Tycho Brahe as Influential as He Thought?" Offprint: *British Journal for the History of Science*, 1963. Vol. I, Part IV, No. 4, December 1963. (245 x 170 mm). (295)-324 pp. Stapled pages. SIGNED BY THE AUTHOR, "With the compliments of..." Fine. Z1805 \$ 18
128. **BREHAUT, Ernest.** *An Encyclopedist of the Dark Ages.* New York: [Columbia University], 1912. 8vo. 274 pp. Hardcover; title-page loose. Ink ownership signature of David C. Lindberg. Ex-library with the usual markings; some light marginalia in pencil by David C. Lindberg. As is. \$ 12

129. **BRASCH, Frederick E.** "James Logan, a Colonial Mathematical Scholar, and the First Copy of Newton's Principia to Arrive in the Colony." Offprint from: *Proceedings of the American Philosophical Society*, 1942. Vol. 86, No. 1, September 1942. (265 x 205 mm). 12 pp. Illustrations. Printed wrappers; bisected fold with marginal tearing. Rubber stamp on front cover. Very good. Z1806 \$ 10



130. **BREWSTER, Sir David** (1781-1868). "Ueber die Natur der Polarisationsbüschel." Offprint. Vienna: *Sitzungsberichte der k. Akademie der Wissenschaften*, (November, 1850). 227 x 148 mm. 8vo. 4 pp. Self-wraps. Very good.

\$ 225

The astronomical spectroscopy of the nineteenth century based on Brewster's angle has evolved through into the microwave and the modern optical lasers of today. David Brewster's important contributions to the knowledge of the polarization of light include the discovery that compression in one direction causes an isotropic solid to exhibit double refraction. He showed that complete polarization occurred (only one polarization was reflected) when the reflected and refracted rays were perpendicular, a phenomenon which occurs at what is now known as Brewster's angle. Wilhelm Karl Haidinger (1795-1871) after his education in Vienna, visited George Cuvier and J.-B. Biot in Paris and George Greenough, David Brewster and Thomas Allan in Edinburgh. In 1823 Haidinger moved to Edinburgh in order to arrange Allan's mineral collection. Under Brewster's influence Haidinger studied the absorption of light in crystals and he designed a simple and effective instrument named Haidinger's dichroscope. Observations on the connection between absorption and the direction of polarization of transmitted and reflected light led in 1848 to a well-founded theory bearing on Babinet's rule that a greater absorption of the whole spectrum of visible light corresponds to a higher index of refraction. See: *DSB*, VI, p. 19.

\$3559

131. **BREWSTER, David** (1781-1868) **Alison Dorothy MORRISON-LOW & John R.R. CHRISTIE** [eds.]. *Martyr of Science: Sir David Brewster 1781-1868. Proceedings of a Bicentenary Symposium Held at the Royal Scottish Museum on 21 November 1981, together with a Catalogue of Scientific Apparatus Associated with Sir David Brewster and a Bibliography of his Published Writings*. (Edinburgh): Royal Scottish Museum, (1984). Series: *Royal Scottish Museum Studies*. 4to. 138 pp. Frontis. port. of Brewster, 49 half-tone figs. Printed wrappers. Bibliography by Alison Dorothy Morrison-Low. Very good. ISBN: 0900733292 Z1111

\$ 25

132. **British Astronomical Association**. *Catalogue of the Library of the British Astronomical Association*. London: Published by the Association, 1913-1924. 2 vols. 8vo. 82; 58 pp. Frontis. (Vol. II only). Printed wrappers; a bit foxed, spine worn with minor chipped ends (Vol. I only). Listings compiled to 1923. Includes 12 loose sheets of carbon copies on thin paper of "Recent Additions" to the collection. Very good. Rare. Z1112

\$ 50

133. **BROCKETT, Paul** (1872-1946). *Bibliography of Aeronautics. Smithsonian Miscellaneous Collections, Volume 55. Hodgkins Fund. (Publication 1920)*. Washington: Smithsonian Institution, 1910. 8vo. xiv, 940 pp. Rebound in navy library buckram, gilt-stamped spine title; a bit rubbed. Former library copy with the usual marks and defects. Very good. Z1116

\$ 85

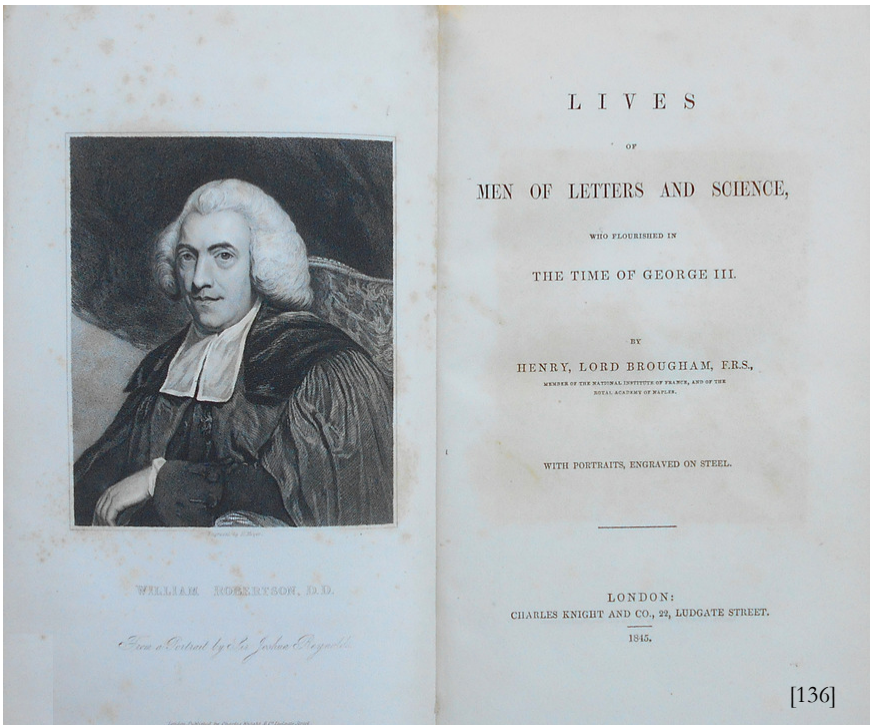
134. **BROCKLESBY, John** (1811-1889) **Samuel HART**. *An Address Commemorative of John Brocklesby, LL.D.* Hartford: Case, Lockwood & Brainard, 1889. 8vo. 22 pp. Printed wrappers; front cover chipped along top edge. Embossed stamp and library cover call number. Very good. Z1807

\$ 8

135. **BROOKE, John Hedley.** *Science and Religion; Some Historical Perspectives.* Cambridge: Cambridge University Press, (1993). 8vo. x, 422 pp. Figs., index. Black cloth. Ink ownership signature of David C. Lindberg. Fine. RARE IN CLOTH.

\$ 45

“One of the most fascinating and enduring issues in the development of the modern world—the relationship between scientific thought and religious belief—is reviewed in the context of recent scholarship in the history of science. One of the most fascinating and enduring issues in the development of the modern world is the relationship between scientific thought and religious belief. It is common knowledge that in Western societies there have been periods of crisis when new science has threatened established religious authority. The trial of Galileo in 1633 and the uproar caused by Darwin’s *Origin of Species* (1859) are two famous examples. Taking account of recent scholarship in the history of science, Professor Brooke takes a fresh look at these and similar episodes, showing that science and religion have been mutually relevant in such a rich variety of ways that simple generalizations are not possible. Standing back from general theses affirming “conflict” or “harmony,” which have so often served partisan interests, the author’s object is to reveal the subtlety, complexity, and diversity of the interaction of science and religion as it has taken place in the past and in the twentieth century. Instead of treating science and religion as discrete definable entities, his approach is sensitive to shifting boundaries and willing to consider the contexts in which particular forms of science could be used both for religious and secular ends. The result is that, without assuming specialist knowledge, Brooke provides a wide-ranging study from the Copernican innovation to *in vitro* fertilization.” ISBN: 0521239613 / 0-521-23961-3



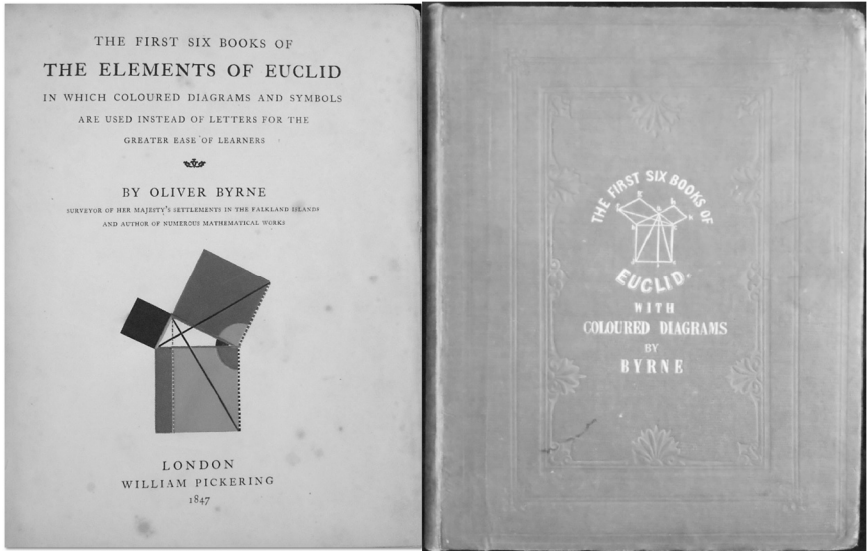
136. **[BROUGHAM, Henry Peter** 1st Baron Brougham and Vaux] (1778-1868). *Lives of Men of Letters and Science, Who Flourished in the Time of George III. With Portraits, Engraved on Steel. Two Volumes*. London: Henry Colburn, 1845-1847. 2 volumes. 8vo. xv, 516; xi, 516 pp. 14 engraved plates (including frontis.); some foxing. Half dark green morocco with marbled paper sides, elaborately decorated gilt spine with raised bands, t.e.g.; extremities worn, inner hinge a bit cracked (Vol. I only). Very good. Z1117
\$ 225
Fine early biographies of these luminaries, most with an engraved portrait: Voltaire, Rousseau, Hume, Robertson, Black, Watt, Priestly, Cavendish, Davy, Simson; Samuel Johnson, Adam Smith, Lavoisier, Gibbon, Sir Joseph Banks, D'Alembert, with additional notes on Cavendish, Watt and Black.
137. **BROWN, Chandos Michael**. *Benjamin Silliman: A Life in the Young Republic*. Princeton: Princeton University Press, (1989). First printing. 8vo. xvi, 377 pp. Frontis. port. of Silliman, 14 illustrations, index. Dark blue cloth, gilt-stamped black spine label, dust-jacket. Fine. ISBN: 0691085331 Z1119 \$ 8
138. **[BROWN, Ernest William** (1866-1938)] **Frank SCHLESINGER & Dirk BROUWER**. *Biographical Memoir of Ernest William Brown, 1866-1938*. Washington: National Academy of Sciences, 1940. Series: *NAS, Biographical Memoirs*, Vol. XXI, Sixth Memoir. 8vo. 243-273 pp. Frontispiece portrait of Brown with facsimile signature. Printed wrappers. Fine. Z1809 \$ 10
139. **BROWN, Harrison Scott** (1917-1986) [ed.], **Gunnar KULLERUD & Walter NICHIPORUK** [assoc. eds.]. *A Bibliography on Meteorites*. Chicago: University of Chicago Press, (1953). FIRST EDITION. Series: *An International Catalogue of Meteorites*. 8vo. viii, 686 pp. Index. Blue-green cloth, gilt-stamped spine title; spine faded, inner hinge cracked. The dust-jacket has been cut into sections and neatly tipped in between the endpapers. Very good. Z1120 \$ 75
140. **[BROWN, Joseph** (1733-1785)] **J. Walter WILSON**. "Joseph Brown: Scientist and Architect." Offprint from: *Rhode Island History*, Vol. IV, No. 3, July 1945 and Vol. IV, No. 4, October 1945. Providence: Roger Williams Press, [1945]. 8vo. 24 pp. Frontis. and full-page illus. Paper wrappers with mounted printed paper cover label. Very good. Z1810 \$ 12
141. **BROWN-SÉQUARD, Charles-Édouard** (1817-1894). *Notice sur les Travaux Scientifiques de M. C.E. Brown-Séguard, Professeur de Médecine au Collège de France*. Paris: G. Masson, 1883. 4to. viii, 70, [2] pp. Printed wrappers; front cover detached, wrappers heavily chipped. Dudley Observatory rubber-stamp on front cover. Fair. Very rare. Z1122
\$ 125
Detailed bibliography with substantial annotations for many of the 397 publications cited.
142. **BROWNE, Sir Thomas**. *Religio Medici; Letter to a Friend &c. and Christian Morals*. Edited by *W.A. Greenhill, M.D.* Peru, IL: Sherwood Sugan, (1990). 8vo. lvi, 392 pp. Title portrait, index. Printed wrappers. Fine. Ink ownership signature of David C. Lindberg. ISBN: 0893850349 / 0-89385-034-9 \$ 12

143. **BRUHNS, C.** [ed.]. *Die Astronomen auf der Pleissenburg, Die Observatoren Rüdiger, Mollweide, Möbius, D'Arrest. Die Amannenses: Meissner, Wechsler, Thome, Brandes, Heyn.* Leipzig: Alexander Edelmann, 1878. 4to. 104 pp. Original printed wrappers; front cover chipped, spine repaired with red tape. Previous owner's inked signature on front cover (W. Dietrich, 1879). Very good. Z1811 \$ 40
144. **BULLOUGH, Vern L.** (editor). *The Scientific Revolution.* New York: Holt, Rinehart & Winston, (1970). 8vo. 129 pp. Printed wrappers; rubbed. Ink ownership signature of David C. Lindberg. Very good. ISBN: 0030770106 / 0-03-077010-6 \$ 5
145. **BURCHARD, Edward Lawver** (1867-1944). *List and Catalogue of the Publications Issued by the U.S. Coast and Geodetic Survey, 1816-1902.* Washington: Government Printing Office, 1902. Series: *Treasury Department, United States Coast and Geodetic Survey.* 4to. 239 pp. Dark olive cloth, gilt-stamped cover emblem and spine title; extremities rubbed, corner bumped. Very good. Z1125 \$ 10
146. **BURNET, Sir Frank Macfarlane** (1899-1985). *The clonal selection theory of acquired immunity.* Nashville: Vanderbilt University Press, 1959. At head of title: The Abraham Flexner Lectures, 1958. 8vo. xiii, (209) pp. Title-page vignette, 12 figs., 4 tables, index. Red cloth, gilt spine, dust-jacket; jacket lightly worn. Ownership rubber stamps. Very good. \$ 65
FIRST EDITION. Published in Great Britain by Cambridge University Press. Sir Frank Macfarlane Burnet shared the Nobel Prize with Peter Medawar in 1960 for work in immunology. Garrison and Morton 2578.31.
147. **BURROW, J.A.** *The Ages of Man; A study in Medieval Writing and Thought.* Oxford: Clarendon Press, 1986. 8vo. ix, 211 pp. Frontispiece, 12 plates, index. Cloth, dust-jacket. Ink ownership signature of David C. Lindberg. Very good. ISBN: 0198111886 \$ 50

William Pickering's Masterpiece of Color and Design

148. **BYRNE, Oliver** (1810-1880). *The First Six Books of The Elements of Euclid in which coloured diagrams and symbols are used instead of letters for the greater ease of learners.* London: William Pickering, 1847. Sm. 4to. (232 x 188 mm) xxix, 268 pp. Three color diagram on title, red, blue, yellow and black printed figures on nearly every page; foxed throughout as usual. Printed in Caslon old-face type with ornamental initials by C. Whittingham, Chiswick. Original blind and-stamped red cloth, gilt-stamped cover and spine titles, a.e.g; rebound with similar toned red cloth, new endleaves. Housed in a c1980s clamshell dark calf box with the multi-colored title-vignette device employed for the upper cover of the box, gilt-stamped red morocco spine label. A choice copy with this fine box and in original cloth. Very good copy with lighter foxing than is usual for this book. RARE IN ORIGINAL PUBLISHER'S CLOTH. \$ 9,500
"THE MOST ATTRACTIVE EDITION OF EUCLID THE WORLD HAS EVER SEEN" – Werner Oechslin, in an essay to the Taschen reprint, Cologne: 2010.⁴

⁴ Werner Oechslin (born 1944) studied art history, archaeology, philosophy and mathematics. After doctoral studies in Zurich in 1970 he taught at MIT and Harvard University. Since 1985



FIRST EDITION of this unusual and attractive edition of Euclid edited by an otherwise unknown mathematician named Oliver Byrne. It covers the first six books of Euclid, which range through most of elementary plane geometry and the theory of proportions. A distinguishing mark of Byrne's edition is that he attempts to present Euclid's proofs in terms of pictures, using as little text and a few labels as possible. The book is especially striking in its use of color, using a four-color process while attempting to use color as a teaching tool for geometry.

"Colour printing may be more pleasantly associated with Pickering's name by a consideration of an edition of *The First Six Books of the Elements of Euclid* devised by Oliver Byrne... This is a very curious work in which Caslon's old-face pica is associated with Chiswick Press initials and ornaments and with diagrams and symbols printed in brilliant colours, these being 'used instead of letters for the greater ease of learners.'" [Keynes].

PREFACE: "Such is the expedition of this enticing mode of communicating knowledge, that the Elements of Euclid can be acquired in less than one third the time usually employed, and the retention by the memory is much more permanent; these facts have been ascertained by numerous experiments made by the inventor, and several others who have adopted his plans." The result is a decided complication of Euclid, but a triumph for Charles Whittingham, who printed the book at the Chiswick Press.

"Each proposition is set in Caslon italic, with a four line initial engraved on wood by Mary Byfield; the rest of the page is a unique riot of red, yellow, and blue: on some

he has been a professor at the Swiss Federal Institute of Technology, where he led the Institute for the History and Theory of Architecture from 1986 to 2006. His research focuses on architectural theory and the cultural history of architecture. His most recent publication is *Palladianismus: Andrea Palladio – Werk und Wirkung* (2008). He is the founder of *Bibliothek Werner Oechslin* in Einsiedeln.

pages letters and numbers only are printed in colour, sprinkled over the page like tiny wild flowers, demanding the most meticulous register: elsewhere, solid squares, triangles, and circles are printed in gaudy and theatrical colours, attaining a verve not seen again in book pages until the days of Dufy, Matisse, and Derain.” The printer, Charles Whittingham who frequently worked with Pickering, created “one of the oddest and most beautiful books of the whole century.” – Maclean. “Oliver Byrne’s edition of Euclid’s Elements substituted colors for the usual letters to designate the angles and lines of geometric figures, making it one of the oddest and most beautiful mathematical books ever printed. It was also one of the most difficult to print, as the use of color wood blocks required exact registration to correctly align the pages for pass through the printing press for the different colors of ink.” – Richard Delaware, Department of Mathematics and Statistics, University of Missouri, NCTM Regional Conference and Exposition, Kansas City, Missouri, & Bruce Bradley, Librarian for History of Science, Linda Hall Library, Kansas City, Missouri.

Oliver Byrne was an Irish author and civil engineer, Surveyor of Her Majesty’s Settlements in the Falkland Islands and the author of numerous mathematical works. Little is known of his life other than he was a writer of many books relating to mathematics and engineering.

☼ John Buechler, *Charles Whittingham: printer 1795-1876. An Exhibit of his works at Bailey/Hove Library at the University of Vermont, Introduction by Janet Ing*, (1983), 46; Keynes, *William Pickering*, pp. 29, 53; MacLean, *Victorian Book Design*, p. 51, 70; Zeitlinger 1234.

149. **CABANIS, Pierre-Jean Georges** (1757-1808). *Rapports du physique et du moral de l’homme*. Paris & Geneva: Ressources, 1980. Series: *Collection Ressources*, 78. 8vo. lxxviii, 712 pp. Red printed wrappers; lightly foxed edges. Very good. Scarce issue.

\$ 40

On the relations between the physical and moral aspects of man, first issued in 1802, was a very early study of physiological psychology.

150. **CAJORI, Florian**. *A History of the Conceptions of Limits and Fluxions in Great Britain from Newton to Woodhouse*. Chicago and London: Open Court, 1919. Series: *Open Court Series of Classics of Science and Philosophy*, no. 5. Sm. 8vo. viii, 299 pp. 2 ports., index. Original olive green cloth printed in black; rear hinge cracked. Numerous ex-library rubber stamps on all endleaves and fore-edges, white painted library call numbers on spine, else very good.

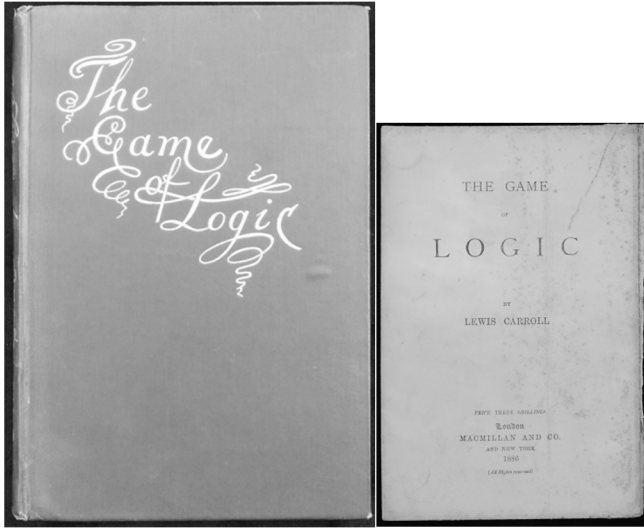
\$ 50

“Argues that Berkeley’s critique of the foundations of the fluxional calculus led to an early geometrical concept of limit (Robins). Thus the British treatment of the calculus in the 18th century gained clarity and logical rigor” – Joseph Dauben, *The History of Mathematics from Antiquity to the Present: A Selective Bibliography*, no. 927.

151. **Cambridge Philosophical Society**. *Author Index to Proceedings of the Cambridge Philosophical Society, Volumes 1 to 50, (1843-1954) and Transactions of the Cambridge Philosophical Society, Volumes 1 to 23, (1822-1928)*. Cambridge: Cambridge Philosophical Society, 1961. 8vo. 106 pp. Printed wrappers; top spine end worn, covers sunned. Very good. Z1127

\$ 20

152. **CAMPBELL, William Wallace** (1862-1938) **W. H. WRIGHT.** *Biographical Memoir of William Wallace Campbell, 1862-1938.* Washington: National Academy of Sciences, 1948. Series: *NAS, Biographical Memoirs*, Vol. XXV, Third Memoir. 8vo. 35-74 pp. Frontis. port. of Campbell with facsimile signature. Printed wrappers. Fine. Z1812\$ 10
153. **CAMPKIN, Henry.** *Two Sussex Archaeologists. William Durrant Cooper, F.S.A. and Mark Antony Lower, M.A., F.S.A. (Leves); (Geo. P. Bacon) for Private Circulation, 1877.* 8vo. 39 pp. Frontis. port. of Lower. Red cloth, gilt-stamped cover title; front hinge broken, extremities soiled. Previous owner's stamp on title. Presentation copy signed by the author: "To Justin Winsor, Esq. with the best wishes of Henry Campkin. 9 Oct. 1877." Poor. Z1750 \$ 30
154. **CANTÚ, Maria Celeste; Thomas B. SETTLE.** *The Antique Instruments at the Museum of History of Science in Florence.* Florence: Arnaud, (1973). Istituto e museo di storia della scienza (Italy). Sm. 12mo. 148 pp. Profusely illustrated with plates, many in color. Color card wrappers. Ownership signature of Alan E. Shapiro. Fine. \$ 20
155. **Carey Baird & Co.** *Catalogue of Practical and Scientific Books, Published by Henry Carey Baird & Co., Industrial Publisbers and Booksellers, 810 Walnut St., Philadelphia.* Philadelphia: Henry Carey Baird, 1883. 8vo. 96 pp. Index. Printed wrappers. Very good. Rare. Z1331 \$ 30
156. **CARL, Philipp Franz Heinrich** (1837-1891). *Repertorium der Cometen-Astronomie.* Muenchen & London & Paris: M. Rieger'sche Universitets-Buchhandlung & Asher & A. Franck, 1864. 8vo. vi, 377, [1] pp. Professionally rebound in charcoal cloth, gilt-stamped spine title, a.e. marbled; foxed. Very good. Z1128 \$ 175
An excellent and detailed bibliographical record of comet observations from 612 B.C.E. to 1864.
157. **Carnegie Institution of Washington.** *Catalogue of Publications and Depositories of the Institution.* Washington, D.C.: Carnegie Institution of Washington, 1954. 8vo. vii, 397 pp. Index. Printed wrappers; spine faded. Former library copy with spine markings. Very good. Z1130 \$ 12
158. **CAROTHERS, Wallace Hume** (1896-1937) & **J. A. ARVIN.** *Studies on Polymerization and Ring Formation. II. Poly-esters.* The Journal of the American Chemical Society, Vol. 51, No. 8, pp. 2560-2570. Contained in: *The Journal of the American Chemical Society*, 1929. 8vo. (234 x 160 mm) [6], pp. (2283)-2596, [2 ads.]. Original printed wrappers; spine ends chipped. Bookplate of Andras Gedeon. Very good. \$ 450
FIRST EDITION of studies on polymerization, ring formation and the polyesters, which led directly to the invention of Nylon. "Carothers and Arvin report on the preparation and characterization of a large number of esters. The experiments follow from theoretical considerations presented by Carothers in a preceding paper, which in turn is largely based on the results of Staudinger. Carothers discusses the properties and structures of the esters, determines their molecular weights and finds that all are highly polymeric." [Gedeon].



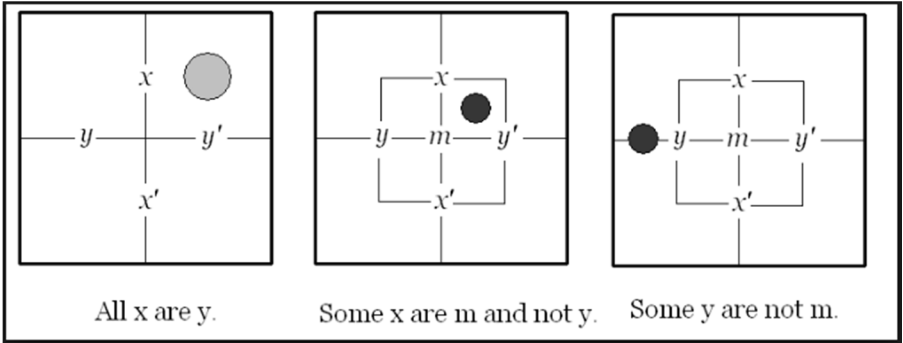
159. **CARROLL, Lewis.** [Dodgson, Charles Lutwidge] (1832-1898). *The Game of Logic*. London: Macmillan, 1887. Sm. 8vo. (xii), 96, [1], [2] advertisement, [1 blank] pp. Dual game-board depiction as frontispiece. Original red cloth with stylized gilt title to the front board and similar spine lettering, original black endpapers; spine heavily darkened, joints and spine ends worn, through the other extremities are near fine, inner hinges very good. Red leather bookplate of Alfred Sutro.

\$ 425

Second printing, preceded by the suppressed edition, of which about 50 are known and which Carroll disapproved. *The Game of Logic* was first printed for Carroll, in 1886, by E. Baxter at Oxford. This volume includes the Original envelope and game board and 7 of 9 red or gray colored counters. The date printed on the accompanying envelope states "1886" probably indicating this form of the book's supplement was part of the original edition (as one would expect).

It failed to reach the author's standards, and was rejected for public issue. Carroll's diary entry on the subject is illuminating: "5 Dec. 1886: The printing of *The Game of Logic* has not been a success: and I wrote today to Macmillan my decision to have it printed again by Clay, for England, and send these 500 to America just what happened in '65 with Alice, when the first 2000, done at the University Press, turned out so bad that I condemned them to the same fate." In his letter to Macmillan, Carroll states: "they will do very well for the Americans, who ought not to be very particular as to quality, as they insist on having books for very cheap" [sic]. He adds: "I would rather that these Oxford copies were not sold in England at all. They must not begin to be sold in America until the English Edition is ready" (quoted from Williams, Madan and Green, p. 132). Laid into the volume is the original printed envelope [Price Three Shillings; the envelope is torn and with some foxing] containing the game board and seven of the nine accompanying counters (red or gray color dots). The original printed (in black ink on both sides) game board for *The Game of "Logic"* is, other than some minor browning, in excellent condition. The envelope was originally sold separately, thus not all copies had the envelope at the original point of issue.

“Within the academic discipline of mathematics, Dodgson worked primarily in the fields of geometry, matrix algebra, mathematical logic and recreational mathematics, producing nearly a dozen books under his real name. Dodgson also developed new ideas in the study of elections (e.g, Dodgson’s method) and committees; some of this work was not published until well after his death. He worked as a mathematics tutor at Oxford, an occupation that gave him some financial security. His mathematical work attracted renewed interest in the late 20th century. Robbins’ and Rumsey’s investigation of Dodgson Condensation, a method of evaluating determinants, led them to the Alternating Sign Matrix conjecture, now a theorem” (*Wikipedia*).



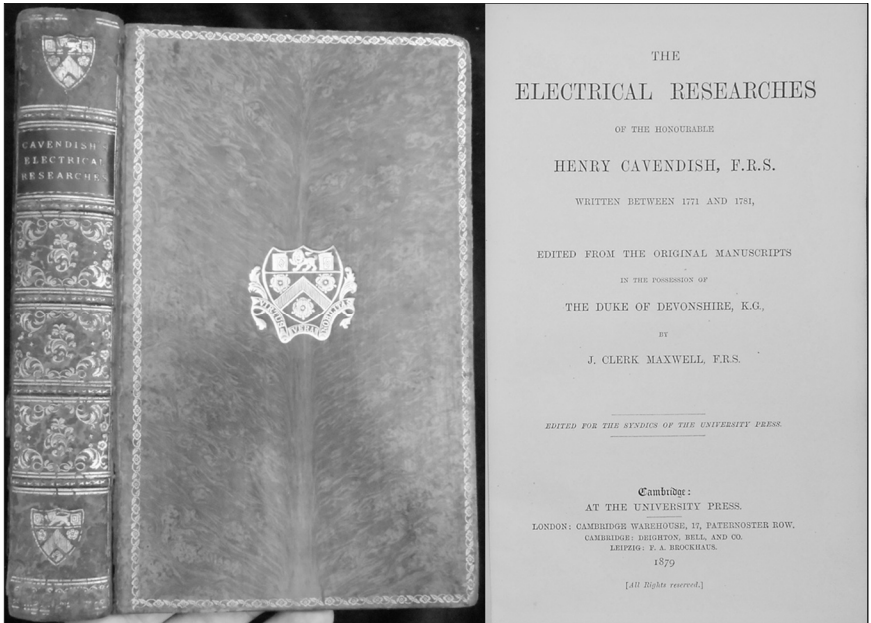
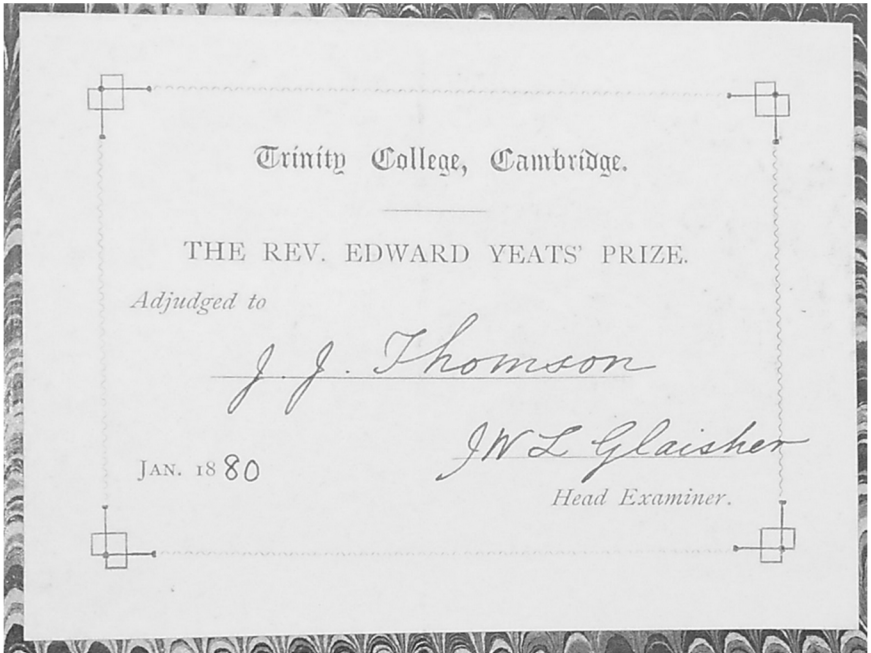
PROVENANCE: Alfred Sutro (1869-1945), “long a member of the California Historical Society, died on March 9, 1945. Mr. Sutro was born in Victoria, B.C., October 15, 1869. He moved to San Francisco with his family in 1875 and resided there until the time of his death. In 1891 he graduated from Harvard University with the degree of A.B., and then attended Hastings College of the Law at San Francisco, from which he graduated in 1894 with the degree of LL.B. This same year he was admitted to practice. While attending Hastings, Mr. Sutro had been a clerk in the office of Pillsbury, Blanding and Hayne, and remained with that office after his admission to the Bar. In 1904 he became a partner in the firm of Pillsbury, Madison and Sutro, and at the time of his death was the senior partner of this firm. Mr. Sutro was an able

lawyer and handled many large and important cases. He was also General Counsel of the Pacific Telephone and Telegraph Company of which organization he had been a director since 1940. He acted in the latter capacity for several other companies, including the Pacific Lighting Corporation. As a great book lover and collector, one of his main interests was the Book Club of California. Under his leadership while President, this club has become very widely known and an intellectual force, having drawn members from all parts of the country” (Allen L. Chickering (1877-1958),

California Historical Society Quarterly, March 1945).

☼ Sidney Herbert Williams, Falconer Madan & Roger Lancelyn Green, *The Lewis Carroll Handbook: Being a New Version of A Handbook of the Literature of the Rev. C. L. Dodgson* (1979, revised) 170a. (quote: p. 132).

160. **CASSINO, Samuel Edson** (1856-1937) [comp.]. *The International Scientist's Directory. Containing the Names, Addresses, Special Departments of Study, etc., of Amateur and Professional Naturalists, Chemists, Physicists, Astronomers, etc., etc., in America, Europe, Asia, Africa and Oceanica*. Boston: S.E. Cassino, 1888. 8vo. viii, 205, ads. [24] pp. Brown cloth, gilt-stamped spine title. Former library bookplate and spine call no. on chipped paper. Very good. Z1132 \$ 12
161. **CASSINO, Samuel Edson** (1856-1937) [comp.]. *The Scientists' International Directory, Containing the Names, Addresses, Special Departments of Study, etc., of Professional and Amateur Naturalists, Chemists, Physicists, Astronomers, etc., etc., in All Parts of the World*. Boston: S.E. Cassino, 1896. 8vo. viii, 340, 126, ads. [10] pp. Green cloth, gilt-stamped spine title; cloth spotted. Former library copy with the usual markings. Very good. SCARCE. Z1137 \$ 25
162. **CASSINO, Samuel Edson** (1856-1937) [ed.]. *The Naturalists' Universal Directory, Containing Names, Addresses and Special Subjects of Study, of Professional and Amateur Naturalists in All Parts of the World. 19th Edition Compiled in 1904*. Salem: Samuel Edson Cassino, 1905. 8vo. viii, 208, ads. [12] pp. Index. Printed wrappers; covers a bit creased. Very good. SCARCE. Z1135 \$ 50
163. **CASSIRER, Ernst**. *Substance and Function and Einstein's Theory of Relativity*. New York: Dover, (1953). 8vo. xii, 465 pp. Index. Printed wrappers. Fine. \$ 9
164. **CASSUTT, Michael**. *Who's Who in Space: The First 25 Years*. Boston: G.K. Hall, (1988). Second printing. 4to. xiii, 311 pp. Half-tone frontis. (3 images), photos, index. Black cloth, silver-stamped spine title, dust-jacket; light wear to jacket edges. Very good. ISBN: 0816188017 Z1138 \$ 22
165. **CASWELL, Alexis** (1799-1877). *Address before the American Association for the Advancement of Science, August 1859*. (Cambridge): Joseph Lovering for the Association, 1859. 6to. 26 pp. Original printed wrappers; wrappers chipped and detached, a few minor inked corrections. Poor. Z1813 \$ 10
166. **[CATESBY, Mark] George Frederick FRICK; Raymond Phineas STEARNS**. *Mark Catesby, the Colonial Audubon*. Urbana: University of Illinois Press, 1961. 4to. x, 137 pp. Illus., index. Cloth, dust-jacket; slight wear to edges of jacket. INSCRIBED BY THE AUTHOR for Roger Hahn. Rare as such. \$ 100
167. **[CAUCHY] Bruno BELHOSTE**. *Cauchy 1789-1857. Un mathématicien légitimiste au XIXe siècle*. Paris: Belin, (1984). Series: *Un Savant, Une Epoque ...* par J. Dhombres. 8vo. 223 pp. Illus. throughout, index. Printed wrappers. Fine. ISBN: 2701105102 \$ 25
- Baron Augustin-Louis Cauchy (1789–1857), French mathematician, was an early pioneer of analysis, whose writings cover the entire range of mathematics and mathematical physics. In 1830 France had another revolution, with Cauchy going into exile, first in Switzerland and then in Sweden and still later to Praguë he returned to Paris in 1838.



J. J. Thomson's Copy
Later Awarded the 1906 Nobel Prize in Physics

168. **CAVENDISH, Henry; J. Clerk MAXWELL** [ed.]. *The Electrical Researches of the Honourable Henry Cavendish, F.R.S., Written Between 1771 and 1781 Edited from the Original Manuscripts in the Possession of the Duke of Devonshire, K.G., by J. Clerk Maxwell, F.R.S.* Cambridge, UK: Cambridge University Press, 1879. 8vo. lxvi, 454, [ads 1] pp. 3 full-page plates of facsimiles of Cavendish's holograph notes, text illustrations and diagrams. Contemporary gilt-stamped tree calf, front and rear Trinity College gilt coat of arms, five raised bands, gilt-stamped red leather spine label, in modern quarter gilt-stamped calf over marbled paper-backed boards slipcase; joints starting, corners worn. Presentation label presenting the book to Joseph John Thomson (1856-1940), for winning the Rev. Edward Yeats' Prize, Jan. 1880. Very good in fine slip-case.

\$ 1200

FIRST EDITION of Cavendish's groundbreaking electrical research—representing one of his few manuscripts to be published in full.

“Some of Cavendish's manuscripts have been published, though only one group of them, the electrical, with anything approaching completeness. His electrical papers were examined by a series of experts in that branch of physics, first by William Snow Harris, who borrowed them from the earl of Burlington and included extracts from them in a revision of his textbook on electricity. In 1849 William Thomson visited William Snow Harris and examined Cavendish's manuscripts. Thomson thought that Cavendish's electrical manuscripts should be published in their entirety, and he together with several other men of science put the case to the duke of Devonshire. In 1874 the duke placed the manuscripts in the hands of the first Cavendish Professor of Experimental Physics, James Clerk Maxwell. For the next five years, Maxwell repeated Cavendish's experiments, transcribed the manuscripts, and prepared a densely annotated and nearly complete edition of Cavendish's unpublished electrical papers together with his two published electrical papers. This extraordinary edition was published by Cambridge University Press only a few weeks before Maxwell's death in 1879” (Jungnickel & MacCormmach, pp. 5-6).

“It may be recalled that although little is known of Cavendish's scientific research, he had computed the parallax of stars due to the mass of the sun long before Einstein, that in 1775 he had demonstrated to some of his friends the application of electricity, and the use of some instruments to make electrical measurements, formulating what were to be called, half a century later, Ohm's Law, and Coulomb's Law. Only in 1879 did J. C. Maxwell discover his studies on electrical condensers, and described them in his book *The Electrical Researches of the Hon. Henry Cavendish*” (Breccia, pp. 38-39).

PROVENANCE: Joseph John 'J. J.' Thomson, OM, FRS “was a British physicist and Nobel laureate. He is credited with discovering electrons and isotopes, and inventing the mass spectrometer. Thomson was awarded the 1906 Nobel Prize in Physics for the discovery of the electron and for his work on the conduction of electricity in gases. He was awarded a Nobel Prize in 1906, ‘in recognition of the great merits of his theoretical and experimental investigations on the conduction of electricity by gases.’ He was knighted in 1908 and appointed to the Order of Merit in 1912. In 1914 he gave the Romanes Lecture in Oxford on “The atomic theory”. In 1918 he became Master of Trinity College, Cambridge, where he remained until his death. He died on August 30, 1940 and was buried in Westminster Abbey, close to Sir Isaac Newton” (*Wikipedia*).

Although the “Rev. Edward Yeats’ Prize” appears to be defunct in the present day, it was originally a scholarship paid for by the Yeats Fund. “The Rev. Edward Yeats, formerly Senior Fellow of Trinity College, by his will, proved August 28, 1830, left the sum of 500 lbs. in trust to the College, the interest arising therefrom to be equally divided every year between two scholars of the foundation who shall have graduated in the preceding Bachelor of Arts commencement; one half being given to the scholar who shall stand highest in the mathematical tripos, the other to the scholar who shall have most distinguished himself by general regularity of conduct” (Great Britain Parliament, House of Commons, p. 473).

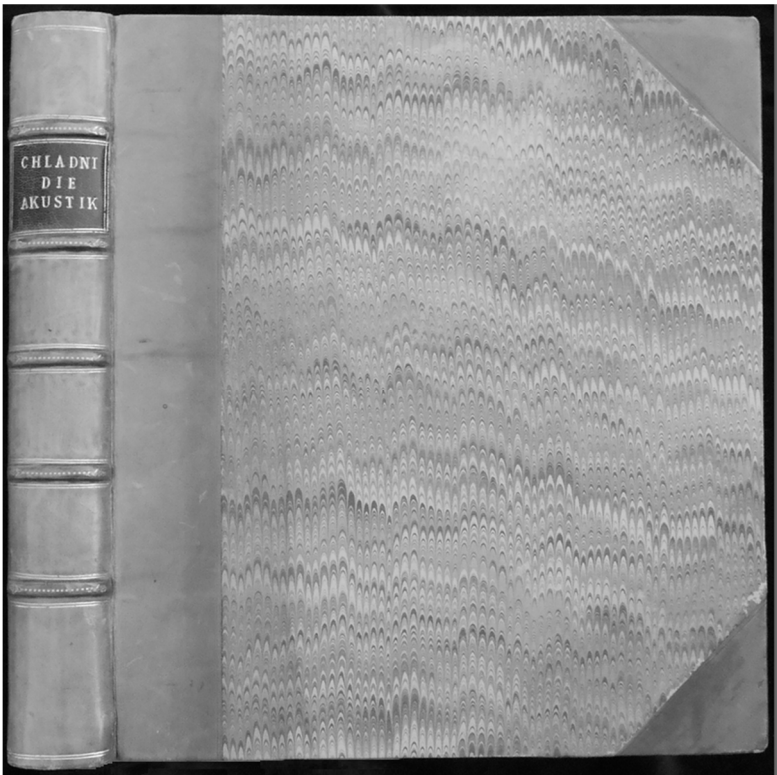
✧ Breccia, Stefano. *Mass Contacts*. Bloomington, IN: AuthorHouse, 2004; Great Britain Parliament, House of Commons. *Reports from Commissioners*. London: Printed by Order of Great Britain, 1874; Jungnickel, Christa & Russell MacCormach. *Cavendish*. Philadelphia: American Philosophical Society, 1996.

169. **[CAVENDISH, Henry (1731-1810)] Arthur John BERRY.** *Henry Cavendish: His Life and Scientific Work*. London: Hutchinson of London, (1960). FIRST EDITION. 8vo. 208 pp. 4 plates, 7 diagrams, glossary, index. Blue cloth, gilt-stamped cover emblem and spine title, dust-jacket; cloth faintly stained. Very good. Z1139 \$ 20
170. **CELSUS.** *De Medicina. Translated by W.G. Spencer*. Cambridge: Harvard University Press, (1971, 1989, 1979). Series: *Loeb Classical Library*, 292, 304, 336 (complete). Three volumes. 12mo. xiv, 499; lxxvii, 291; v, (292)-649 pp. Index. Cloth, dust-jackets. Fine set, like new. ISBN: 0434992925 / 0-434-99292-5; 0434993042; 0434993360 \$ 75
171. **[CHALMERS, Thomas (1780-1847)] Mrs. Margaret OLIPHANT.** *Thomas Chalmers: Preacher, Philosopher, and Statesman*. Boston and New York & Cambridge: Houghton, Mifflin & the Riverside Press, 1893. 8vo. 255 pp. Frontis. port. of Chalmers. Dark blue cloth, blind stamped cover title and gilt-stamped spine title. Very good. Z1752 \$ 45
172. **[CHAMBERLIN, Thomas Chrowder (1843-1928)] Rollin Thomas CHAMBERLIN.** *Biographical Memoir of Thomas Chrowder Chamberlin, 1843-1928*. Washington: National Academy of Sciences, 1934. Series: *NAS, Biographical Memoirs*, Vol. XV, Eleventh Memoir. 8vo. 307-407 pp. Frontis. port. of Thomas Chrowder Chamberlin with facsimile signature, additional port. plate. Printed wrappers; wrappers extremities chipped. Very good. Z1814 \$ 10
173. **Chemical Society.** *Memorial Lectures Delivered before the Chemical Society, 1893-1900*. [with:] *Memorial Lectures Delivered before the Chemical Society, 1901-1913. Volume II*. London: Gurney and Jackson, 1901-1914. 2 volumes. 8vo. Multiple paginations (Vol. I); iv, 297 pp. Plates, facsimile manuscript letters of Jean-Servais Stas and Robert Bunsen, tables (including fold-out). Dark blue cloth, gilt-stamped spine title. Fine copies. Z1142

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174. **CHANCE, Jane; R.O. WELLS, Jr.** (eds.). *Mapping the Cosmos*. Houston: Rice University Press, (1985). 8vo. viii, 175 pp. Cloth, dust-jacket; jacket rubbed. Very good. ISBN: 0892632585 \$ 22
175. [**CHAPIN, Ethan Samuel** (1814-1889)] **Mrs. Louisa Burns CHAPIN**. *Ethan Samuel Chapin: A Memorial, 1814-1889*. Cambridge: Riverside Press, 1893. 8vo. 95 pp. Frontis. port. of Chapin, plates. Green cloth, gilt-stamped cover title. Very good. Z1753 \$ 50
176. [**CHASE, Stephen**] **Nathan LORD**. *A Discourse on the Character of the Late Stephen Chase, Professor of Mathematics in Dartmouth College*. Hanover: Dartmouth Press, 1851. Small 4to. 24 pp. Original printed wrappers. Fine. Z1815 \$ 10
177. **CHENU, M.D.** *Nature, Man, and Society in the Twelfth Century. Essays on the new theological perspectives in the Latin west. Selected, edited, and translated by Jerome Taylor and Lester K. Little*. Chicago and London: University of Chicago Press, (1968). 8vo. xxi, 361 pp. Index; ink underlining through first 2 chapters. Cloth. Ink ownership signature of David C. Lindberg. Good (noting underlining). \$ 5
- “... using theology as a point of departure, discuss the cultural and intellectual movements of a pivotal century.” Claudia Kren, *Medieval Science...*, no. 609.



178. **CHLADNI, Ernst Florens Friedrich** (1756-1827). *Die Akustik*. Leipzig: Breitkopf & Härtel, 1802. Square 4to. (233 x 210 mm) xxxii, 310 pp. Engraved portrait vignette of the author by F.W. Bollinger on title-page plus 11 engraved plates*. Modern half tan calf over marbled boards, raised bands, gilt-stamped green morocco spine label. Exlib ink stamps, bookplate of Andras Gedeon. Fine – lovely copy.

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“By spreading sand over plates and running a violin bow over their edges, Chladni was able to observe the structure of the resulting vibrations, because the sand collected along the nodal curves where there was no motion. Patterns formed in this way were symmetrical and often spectacular, the lines of sand forming circles, stars, and other geometric patterns. Chladni first used circular and rectangular plates of glass and copper, three to six inches in diameter. Later he extended his observations to ellipses, semicircles, triangles, and six-sided polygons. He generally fixed the plates at one internal point, which became a node, and left the sides free.” [DSB].

In work not related to acoustics, Chladni was the first to propose that meteorites are extra-terrestrial in origin. “Contemporary scholars viewed the idea of rocks from the sky as vulgar superstition. But Chladni selected the 18 most detailed fireball reports from those dating between 1676 and 1783 and compared their apparent beginning and end points, magnitudes, velocities, and the number and force of their explosions. His results were so consistent, and the eyewitness testimony so convincing to his lawyer’s ear, that Chladni concluded that solid bodies falling from fireballs are authentic natural phenomena.” [Hockey]. In 1817 a continuation of this treatise was issued *Neue Beyträge zur Akustik* (xii, 90) pp. and is not included here; they are rarely seen together. Note: The title-page engraving of the author is counted as one of the twelve engravings as indicated on the title-page.

☼ Dibner, *Heralds of science* 150 (1787 ed.); DSB Vol. III, pp. 258-9; Gedeon, *Science and technology in medicine*, #13.5 (pp. 83); Hockey, *Biographical Encyclopedia of Astronomers*, Vol. I, pp. 229-31; Norman 481; Poggendorff I, 430; *Printing and the mind of man* 233(b); Roberts & Trent p. 70; Sparrow, *Milestones of science* 38. S9397

179. **CICERO**. *De Natura Deorum Academica*. With an English translation by H. Rackham. Cambridge: Harvard University Press, (1979). Series: *Loeb Classical Library*, 268. 12mo. xxiv, 663 pp. Index. Cloth, dust-jacket. Fine, like new. ISBN: 0674992962 \$ 18
180. **CICERO**. *De Re Publica; De Legibus*. [XVI]. With an English translation by Clinton Walker Keyes. Cambridge: Harvard University Press, (1988). Series: *Loeb Classical Library*, 213. 12mo. x, 533 pp. Index. Cloth, dust-jacket. Fine, like new. ISBN: 0674992350 \$ 15
181. **CICERO**. *De Senectute; De Amicitia; De Divinatione*. With an English translation by William Armistead Falconer. Cambridge: Harvard University Press, (1992). Series: *Loeb Classical Library*, 154. 12mo. 567 pp. Index. Cloth, dust-jacket. Fine, like new. ISBN: 0674991702 \$ 18

182. **CICERO.** *Tusculan Disputations*. [XVIII]. *With an English translation by J.E. King*. Cambridge: Harvard University Press, (1989). Series: *Loeb Classical Library*, 141. 12mo. xli, 577 pp. Index. Cloth, dust-jackets. Fine, like new. ISBN: 0674991567 \$ 18
183. **CIPOLLA, Carlo M.** *Faith, Reason, and the Plague: A Tuscan Story of the Seventeenth Century*. Sussex: The Harvester Press, (1977). 8vo. 113 pp. 9 figs. Cloth, dust-jacket. Very good +. ISBN: 0855275065 / 0-85527-506-5 \$ 8
184. **CLAGETT, Marshall** (editor). *Critical Problems in the History of Science. Proceedings of the Institute for the History of Science at the University of Wisconsin, September 1-11, 1957*. Madison: University of Wisconsin Press, 1962. 8vo. xiv, 555 pp. 12 figs., index. Cloth. Ink ownership signature of David C. Lindberg. Very good. \$ 19
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185. **CLARKE, Samuel.** *A Demonstration of the Being and Attributes of God and other writings. Edited by Ezio Vailati*. Series: Cambridge Texts in the History of Philosophy. 8vo. xxxvii, 168 pp. Index. Printed wrappers. Ownership signature of David C. Lindberg. Very good. Fine. ISBN: 0521599954 / 0-521-59995-4 \$ 20
186. **COBB, Ruth** [comp.]. *Periodical Bibliographies and Abstracts for the Scientific and Technological Journals of the World*. Washington, D.C.: National Research Council, 1920. Series: *Bulletin of the National Research Council*, Vol. 1, Part 3, June 1920, No. 3. 8vo. 131-154 pp. Printed wrappers; covers slightly worn. Former library copy with the usual markings. Very good. Z1144 \$ 10
187. **COHEN, J. Bernard.** *Revolution in Science*. Cambridge: Harvard University Press, 1985. 8vo. xx, 711 pp. Figs., index. Cloth, dust-jacket; jacket extremities worn. Ink ownership signature of David C. Lindberg. Very good. \$ 6
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188. **COLUBI LOPEZ, Mariano.** “Leyes Físicas Versus Leyes Experimentales: el intercambio de información entre Brewster y Biot acerca de la relación entre las leyes de doble refracción y la repolarización (1813-1819).” Within: *LJull: Revista de la Sociedad Española de Historia de las Ciencias y de las Técnicas*, ISSN 0210-8615, Vol. 21, N° 41, 1998. Article pages 357-386. Full issue: 333-599 pp. Illus. Original printed wrappers; rear leaves and cover creased. Good +. \$ 20
Deals with the polarization of light theories in England from 1800-1820. In particular Brewster and Biot and their exchanges are looked at with regard to their

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189. **Commission Géologique du Canada.** *Esquisse Géologique du Canada suivie d'un Catalogue Descriptif de la Collection de Cartes et Coupes géologiques, Livres imprimés, Roches, Fossiles et Minéraux économiques envoyée à l'Exposition universelle de 1867.* Paris: Gustave Bossange, 1867. 8vo. 72 pp. Printed wrappers; partially disbound, wrappers soiled and worn. Good. Z1146 \$ 25
190. **[COMSTOCK, George Cary (1855-1934)] Joel STEBBINS.** *Biographical Memoir of George Cary Comstock, 1855-1934.* Washington: National Academy of Sciences, 1938. Series: *NAS, Biographical Memoirs*, Vol. XX, Fifth Memoir. 8vo. 161-182 pp. Frontis. port. of Comstock with facsimile signature. Printed wrappers. Fine. Z1818 \$ 10
191. **Congress of the History of Science; GUERLAC, Henry** (President). *Actes du dixième Congrès International d'Histoire des Sciences; Proceedings of the Tenth International Congress of the History of Science.* Paris: Hermann, (1964). 2 volumes. 8vo. xviii, 647; (651)-1058 pp. Illus., pls. Original pictorial printed wrappers; rubbed. Very good. \$ 50
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192. **CONSTABEL, Pierre; Charles BEDEL; Pierre HUARD; Yves LAISSUS; Jean TORLAIS; Roger HAHN; & René TATON.** [Series title]: *Enseignement et diffusion des sciences en France au XVIIIe siècle.* [Each part with a different title]: *Enseignement classique au XVIIIe siècle Collège et Universités, [1]. Médecine et Pharmacie au XVIIIe siècle, [2]. Le Jardin du Roi et le Collège royal au XVIIIe siècle, [3]. Écoles Techniques et Militaires au XVIIIe siècle, [4-5]. La Curiosité scientifique au XVIIIe siècle, [6].* Paris: Hermann, (1986). Sm. 8vo. In all: 712 pp. Illus. Color printed wrappers. This is Roger Hahn's set (one of the contributing authors). ISBN: 2705659945 \$ 160
193. **COOK, Harold J.** *The Decline of the Old Medical Regime in Stuart London.* Ithaca & London: Cornell University Press, 1986. 8vo. 310 pp. 11 illus., index. Cloth, dust-jacket. Ownership ink signature of David C. Lindberg. INSCRIBED BY THE AUTHOR TO LINDBERG: "For Dave, with fond respect from an intellectual Leir...." Very good. ISBN: 080141850X / 0-8014-1850-X \$ 32
194. **COOKE, Josiah Parsons.** *The New Chemistry. Eighth edition.* London: Kegan Paul, Trench, 1884. Series: *International Scientific Series*, IX. 8vo. xvii, 400, ads. 44 pp. Figs., index. Original red black-stamped cloth; rubbed. Very good. \$ 35

An Algorithm for the Machine Calculation of Complex Fourier Series

By James W. Cooley and John W. Tukey

Algorithm "... known to Carl Friedrich Gauss"

195. **COOLEY, James W.** (1926-) & **John W. TUKEY** (1915-2000). *An Algorithm for the Machine Calculation of Complex Fourier Series*. (Providence, RI): National Academy of Sciences-National Research Council, 1965. Contained in *Mathematics of Computation*, Vol. 19, No. 90, pp. 297-301. 8vo. pp. 177-364. Original printed wrappers bound in. Modern black cloth, printed paper spine label. Institutional exlib stamp on printed wrapper cover, ownership marks on printed covers. Fine.

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S9606

196. **COOPER, Lane** (1875-1959). *Aristotle, Galileo, and the Tower of Pisa*. Ithaca: Cornell University Press, 1935. 8vo. 102 pp. Index. Original navy blue gilt-stamped cloth. Fine.

\$ 29

Cooper was Professor of English Language, Cornell University: he "was above all a great teacher, one of the greatest of his generation in America. Unmarried, he made his students the center of his life, lavishing upon them the resources of a strong personality. His concordances—of Wordsworth, Boethius, the poems of Milton—are indispensable tools of scholarship. A scholar may profitably consult his *Aristotelian Theory of Comedy*. Yet his greatest strength lay elsewhere than in the realm of pure historical research. Of his twenty-seven books, some of them gatherings from nearly 200 articles and reviews, a significant portion are related to the courses he taught." — [selected from an Obituary, written by James Hutton, Harry Caplan, J.

L. Zwingle.

197. **[COPERNICUS, Nicholas (1473-1543)] American Philosophical Society.** Symposium on Copernicus. Philadelphia: American Philosophical Society, 1973. Series: Proceedings of the American Philosophical Society, vol. 117, no. 6, December 31, 1973. 8vo. 413-552 pp. Original printed wrappers; top corner very lightly creased. Very good. \$ 15
- A collection of scholarly papers presented at the symposium by Owen Gingerich, "From Copernicus to Kepler: Heliocentrism as Model and as Reality;" Anthony Grafton, "Michael Maestlin's Account of Copernican Planetary Theory;" Willy Hartner, "Copernicus, the Man, the Work, and its History;" and Noel Swerdlow, "The Derivation and First Draft of Copernicus' Planetary Theory; a Translation of the Commentariolus with Commentary," on the five hundredth centenary of Copernicus's birth. See: *Science* 10 May 1974, Vol. 184 no. 4137 pp. 660-663.
198. **[COPERNICUS] Angus ARMITAGE (1902-1976).** *Copernicus: The Founder of Modern Astronomy*. New York and London: Thomas Yoseloff, (1957). 8vo. 236 pp. Frontis. port. of Copernicus, plates, 41 numbered figs., index. Light gray cloth, black stamped spine title, dust-jacket; jacket wrinkled and a bit worn. Very good. Z1147 \$ 10
199. **[COPERNICUS, Nicolaus (1473-1543)] Owen GINGERICH.** "Copernicus: A Modern Reappraisal." Offprint from: *Man's Place in the Universe*. Tucson: University of Arizona, 1977. (230 x 150 mm). 27-49 pp. Illustrations. Printed wrappers. Fine. Z1821 \$ 20
200. **[COPERNICUS] Owen GINGERICH.** *Early Copernican Ephemerides*. Cambridge: Center for Astrophysics, 1974. Series: Center for Astrophysics, Preprint Series, No. 237. 8vo. 19 pp. 2 figs., 4 tables. Stapled wrappers. Fine. Z1823 \$ 12
201. **[COPERNICUS, Nicolaus (1473-1543)] Owen GINGERICH.** "A Fresh Look at Copernicus." Offprint from: *Great Ideas Today*, 1973. [No place given]: Encyclopedia Britannica, 1973. (230 x 155 mm). (154)-178 pp. Illustrations. Printed wrappers. Near fine. Z1824 \$ 10
202. **[COPERNICUS] Stanisława HANAUSEK, et al. [eds.].** *Kopernik W Oczach Dawnej I Współczesnej Nauki*. Kraków: Uniwersytet Jagielloński, 1978. 8vo. 175 pp. Printed wrappers. Two red library stamps (front cover and copyright). Very good. Scarce. Z1151 \$ 50
- Features 19 articles of which only 3 are in English; others in French, German & Russian. Alternate title: Nicolaus Copernicus Apud Contemporaneos Suos Quantum Doctrina Valuerit Quantumque Temporibus Nostris Valeant. Includes in English: Jane Czarkowski, "An outline of Nicholas Copernicus' economic ideas;" Sergiej K. Vsekhsyatskij, "Copernican revolution and modern astronomy;" Hiroshi Mizumuta, "Copernicus and social sciences."
203. **[COPERNICUS, Nicholas (1473-1543)] Linderman Library.** *Nicolaus Copernicus 1473-1973. His Revolutions and His Revolution. Catalogue of an Exhibition of Manuscripts & Books with an Historical Essay by Seymour L. Chapin*. Bethlehem: Linderman Library, Lehigh University, 1973. 4to. [i], 49 pp. 10 sepia tone full page half-tone figs. Printed wrappers; covers lightly creased. Very good. Z1152 \$ 8

204. **[COPERNICUS, Nicholas (1473-1543) Luigi PEPE & Università degli studi (Ferrare, Italie).** *Copernico e lo Studio de Ferrara: università, dottori e student.* Bologna : CLUEB, (2003). Series: *Quinto centenario della laurea di Niccolò Copernico; Museo degli studenti; Università degli Studi di Bologna.* 4to. 150 pp. Color illus. Color printed wrappers. Very scarce. ISBN: 8849121261 \$ 21
A study of the university from the Renaissance up to the 20th century, with a focus on the former period.
205. **[COPERNICUS, Nicolaus (1473-1543)] W. Carl RUFUS.** "The Astronomical System of Copernicus." Offprint from: *Popular Astronomy*, 1923. Vol. XXXI, No. 8, October 1923. (250 x 170 mm). 12 pp. Printed wrappers. Near fine. Z1828 \$ 15
206. **[COPERNICUS, Nicholas (1473-1543) University of Bologna; Ovidio CAPITANI (ed).** *L'Università a Bologna; Personaggi, momenti e luoghi dalle origini al XVI secolo.* Bologna: Cassa di Risparmio in Bologna, (1987). Small 4to. 227 pp. Illus. throughout (much in color). Cloth, dust-jacket. Fine. \$ 17
Contains: Maria Consiglia De Matteis, "Copernico e gli Aristotelici bolognesi." See pages 173-203.
207. **CORBIN, Brenda G.** *Catalog of the Naval Observatory Library, Washington, D.C.* 6 volume set. Boston: G.K. Hall, 1976. 6 volumes. 4to. iv, 675; 683; 693; 696; 673; 698 pp. Blue cloth, gilt-stamped spine title. Fine. Z1829 \$ 300
A handsome bibliographic set reproducing the entire card catalog of the Naval Observatory, one of the oldest scientific agencies in the United States. "Among the holdings are 900 pre-19th-century books, the earliest of which is 1482. The collection covers all areas of astronomy, including the latest technical works, textbooks for all levels, popular books, and extensive bibliographic reference works." [from the Introduction]. ISBN: 0816100314
208. **COSTELLO, William T.** *The Scholastic Curriculum at Early Seventeenth-Century Cambridge.* Cambridge: Harvard University Press, 1958. 8vo. 221 pp. Index. Original cloth, dust-jacket; jacket nicked a bit, but generally VG+. Ownership ink signature of David C. Lindberg. Very good. \$ 18
209. **COSTELLO, William T.** *The Scholastic Curriculum at Early Seventeenth-Century Cambridge.* Cambridge: Harvard University Press, 1958. 8vo. 221 pp. Index. Cloth, dust-jacket. Ink ownership signature of David C. Lindberg. Near fine. \$ 18
210. **COULOMB, Charles-Augustin de (1736-1806)] C. Stewart GILLMOR.** *Coulomb and the Evolution of Physics and Engineering in Eighteenth-Century France.* Princeton: Princeton University Press, 1971. FIRST EDITION. 8vo. xvii, 328 pp. Frontis. port. of Coulomb, illustrations, tables, index. Mauve cloth, white and blue stamped spine title, dust-jacket; jacket a bit rubbed. Very good. ISBN: 069108095X Z1155 \$ 75
211. **COURTENAY, William J.** *Schools & Scholars in Fourteenth-Century England.* Princeton: Princeton University Press, 1987. 8vo. xix, 435 pp. 5 maps, index; ink underlined through the end of chapter 1. Cloth, dust-jacket; jacket a bit worn. AFFECTIONATELY INSCRIBED BY THE AUTHOR to David C. Lindberg. Very good. Scarce. ISBN: 9780691055008 \$ 45

212. **CRAGG, Gerald R.** (editor). *The Cambridge Platonists*. Lanham, New York, London: University Press of America, (1968). 8vo. xi, 451 pp. Index. Printed wrappers. Ink ownership signature of David C. Lindberg. Very good +. ISBN: 0819143472 \$ 15

213. **CRAIG, William Lane.** *The Problem of Divine Foreknowledge and Future Contingents from Aristotle to Suarez*. Leiden & New York: E.J. Brill, 1988. Series: *Brill's Studies in Intellectual History*, vol. 7. 8vo. xiii, Cloth, dust-jacket. Ink ownership signature of David C. Lindberg. Near fine.

\$ 120

“The Greek problem of fatalism, as it comes to expression, for example in Aristotle’s De interpretation 9, posed an especially significant challenge to Christian thinkers, committed as they were to the biblical doctrine of Divine foreknowledge. For them the problem took the form of a sort of theological fatalism, which became all the more difficult in light of the fact that Aristotle’s solution – denial of the truth value of future contingent propositions – was not open to them... The present work attempts to exposit carefully and sympathetically the views of Aristotle and seven Christian thinkers, whose responses may supply a foundation of fruitful contemporary debate.” This important work deals with Aristotle, Augustine, Boethius, Thomas Aquinas, John Duns Scotus, William Ockham, Luis Molina, and Francisco Suarez. ISBN: 9004085165

214. **CRERAR LIBRARY.** *A List of Bibliographies of Special Subjects July, 1902*. New York: Burt Franklin, (1968). Reprint. Series: Burt Franklin: Bibliography and Reference Series #210. 8vo. 502 pp. Index. Tan cloth, gilt-stamped spine title. Fine. Z1378 \$ 10

215. **CREW, Henry.** *Portraits of Famous Physicists with biographical accounts*. New York: Scripta Mathematica – Yeshiva College, 1942. Folio. Original printed wrappers. Fine. Z1159 \$ 45

216. **CROMBIE, A.C.** *Science, Optics and Music in Medieval and Early Modern Thought*. London & Roncerverte: Hambledon Press, (1990). 8vo. xxii, 474 pp. Figs., index. Cloth, dust-jacket. Ink ownership signature of David C. Lindberg. Very good.

\$ 20

Eight essays reprinted by Crombie. ISBN: 0907628796 / 0-907628-79-6

217. **CROLL, James** (1821-1890); **James Campbell IRONS.** *Autobiographical Sketch of James Croll with Memoir of His Life and Work*. London: Edward Stanford, 1896. 8vo. 553, ads. [1] pp. Frontis. port. of Croll with tissue guard and facsimile autograph, index. Dark blue cloth, gilt-stamped spine title. Substantially unopened. Fine copy. Z1160

\$ 145

FIRST EDITTON. James Croll was a 19th century Scottish scientist who developed a theory of climate change based on changes in the earth’s orbit.

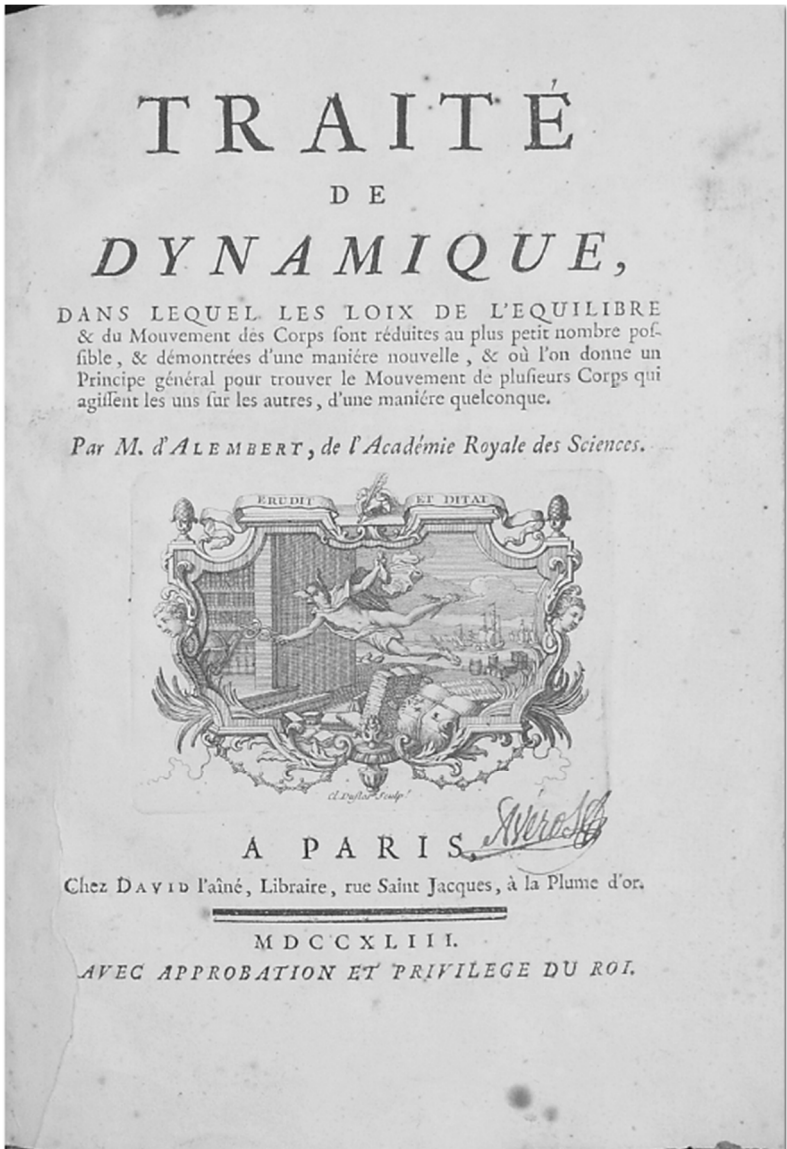
218. **CROOKSHANK, Edgar M.** (1858-1928). *A Text-Book of Bacteriology including the etiology and prevention of infective diseases and a short account of yeasts and moulds, haematozoa, and psorosperms*. London: H. K. Lewis, 1896. 8vo. xxx, 715 pp. 22 plates (all but one colored), 273 figures, index. Original black blind and gilt-stamped cloth; short nick at spine head, upper joint cracked, corner bumped. Bookplate. Scarce. Very good. Scarce.

\$ 100

Fourth edition, reconstructed, revised and greatly enlarged. Dedicated to Joseph Lister. Includes a significant section on apparatus and instruments for the

bacteriological laboratory. See: Garrison and Morton 2504.

219. **CURLEY, Michael J.** *Physiologus*. Translated by Michael J. Curley. Austin & London: University of Texas Press, (1979). 8vo. xliii, 92 pp. Illus.; consideration ink underlining throughout introduction. Cloth, dust-jacket. Ownership ink signatures, including one of David C. Lindberg. Very good (noting underlining). ISBN: 0292764561 \$ 5



220. **d'ALEMBERT, Jean le Rond** (1717-1783). *Traité de dynamique, dans lequel les loix de l'équilibre & du Mouvement des Corps sont réduites au plus petit nombre possible, & démontrées d'une manière nouvelle, & où l'on donne un Principe général pour trouver le Mouvement de plusieurs Corps qui agissent les uns sur les autres, d'une manière quelconque*. Paris: David l'aîné, 1743. Small 4to. [4], xxvi, [2], 186, [2] pp. Title-vignette engraved by Cl. Duflos, 4 folding plates. Original full tree calf, raised bands, gilt-stamped spine panels, original gilt-stamped red morocco spine label; joint cracked, corners showing. Bookplate of Andras Gedeon, catalog label of Frères Perisse. Very good.

\$ 6,200

FIRST EDITION. This first published work of d'Alembert is a landmark in the history of mechanics. In his *Traité de dynamique*, he recognized that a scientific revolution had occurred and set out to formalize the new science of mechanics – an accomplishment often misattributed to Newton. “It reduces the laws of the motion of bodies to a law of equilibrium. Its statement that, *the internal forces of inertia must be equal and opposite to the forces that produce the acceleration*, is still known as d'Alembert's principle. This principle is applied to many phenomena and, in particular, to the theory of the motion of fluids.” [PMM]. In this work, d'Alembert discusses his three laws of motion: inertia, the parallelogram of motion, and equilibrium. The *Traité* reduced the laws of the motion of bodies to a law of equilibrium. It has become useful in the solution of many technical and mechanical problems.

d'Alembert, in addition to being a mathematician, mechanician, physicist and philosopher was also co-editor with Denis Diderot of the *Encyclopédie*. D'Alembert's method for the wave equation is also named after him.

PROVENANCE: “Avéros” (signature on title-page) – from the catalogue of the Frères Perisse, imprimeur-libraires (near contemporary label inside front cover). André-Jean Perish (1738-) and Antoine Perish, journalist-printers-booksellers of Lyon, are the Frères Perisse.

☼ Honeyman Sale, no. 803; Haskell F. Norman 31; *Printing and the mind of man*, 195; Roberts & Trent, *Bibliotheca mechanica*, p.7; Rouse & Ince, *History of Hydraulics*, (1957), pp. 94, 100; Poggendorf I, 28; Timoshenko, *History of Strength of Materials*, (1953), p. 35; Wellcome II, p. 28. S11017

221. **[DALTON, John** (1766-1844)] **Frank GREENAWAY**. *John Dalton and the Atom*. Ithaca: Cornell University Press, (1967). Second printing. 8vo. vii, 244 pp. Frontis. port. of Dalton, 10 plates, index. Black cloth, gilt-stamped spine, dust-jacket; small tear to top edge of front jacket cover. Very good. Z1166 \$ 10
222. **[DALTON, John** (1766-1844)] **Henry Enfield ROSCOE** (1833-1915). *John Dalton and the Rise of Modern Chemistry*. New York and London: Macmillan, 1895. Series: *The Century Science Series*. 8vo. 216, ads. [2] pp. Frontis. port. of Dalton, illustrations, index. Green cloth, gilt-stamped cover and spine titles; bookplate removal from front and rear pastedowns. Very good. Z1167 \$ 35
223. **[DALTON, John** (1766-1844)] **Arnold THACKRAY**. *John Dalton: Critical Assessments of His Life and Science*. Cambridge, MA: Harvard University Press, 1972. FIRST EDITION. Series: *Harvard Monographs in the History of Science*. 8vo. xiv, 190 pp. Frontis. port. of Dalton, illustrations, indexes. Green cloth, black stamped spine title, dust-jacket; jacket; jacket a bit worn. Very good. ISBN: 0674475259 Z1168 \$ 25

224. **DAMEROW, Peter; Gideon FREUDENTHAL; Peter McLAUGHLIN; Jürgen RENN.** *Exploring the Limits of Preclassical Mechanics; A Study of Conceptual Development in Early Modern Science: Free Fall and Compounded Motion in the Work of Descartes, Galileo and Beeckman.* New York, Berlin, Paris: Springer, (1992). Series: Sources and Studies in the History of Mathematics and Physical Sciences. 8vo. xii, 387 pp. Figs., index. Brown cloth. Ink ownership signature of David C. Lindberg. Fine.

§ 25

First edition in English. The question of when and how the basic concepts that characterize modern science arose in Western Europe has long been central to the history of science. This book examines the transition from Renaissance engineering and philosophy of nature to classical mechanics oriented on the central concept of velocity. Descartes, Galileo, and other protagonists of what the authors call “preclassical mechanics” struggled with fundamental concepts and contributed crucial insights to classical mechanics, but it is not clear that they actually realized these insights themselves. This book argues that the emergence of classical mechanics was neither a cumulative change nor an abrupt revolution, but rather that the transformation was the result of exploring the limits and exhausting the possibilities of the existing, largely Aristotelian conceptual system. In the dozen years that have passed since the appearance of the first edition, significant research has been done on Descartes and Galileo and the origins of modern science. There have also been important advances in the accessibility of sources and in technology for analyzing them. For this new edition, the authors take account of the most important new results. They include a new discussion of the doctrine of proportions, an analysis of the role of traditional statics in the construction of Descartes’ impact rules, and go deeper into the debate between Descartes and Hobbes on the explanation of refraction. They also provide significant new material on the early development of Galileo’s work on mechanics and the law of fall. All translations have been reviewed and revised for consistency of terminology and several new documents have been added. The bibliography has been updated to take account of new literature. ISBN: 0387976027 / 0-387-97602-7

225. **DANIELL, John Frederic** (1790-1845). On voltaic combinations. In a letter addressed to Michael Faraday.... with: Additional observations on voltaic combinations. In a letter addressed to Michael Faraday.... In: *Philosophical Transactions of the Royal Society of London.* For the year MDCCCXXXVI, Vol. 126, Part I. London: Richard Taylor, 1836. 304 x 242 mm. 4to. Pages 107-124; 125-129. [Entire volume: xii, (1)-20, 49-215, [1 blank], [4], 571-616 pp.] Tables in the first article; 2 engraved plates accompany the second article. Early green cloth (ca. 1909), printed paper spine label, original plain blue wrappers bound in; lightly rubbed. Bookplate of the Plainfield Public Library, Plainfield, New Jersey, rubber stamps on edges. Very good.

§ 225

“Research in the new field of current electricity was at this time hindered by the rapid decline in power of the voltaic cell when in use, because of ‘reverse polarization.’ Investigating the standard zinc-copper battery, he found that the decline in power was caused by the liberation of hydrogen gas on the copper plate during electrolysis. In an 1836 *Philosophical Transactions* paper he therefore proposed a new form of apparatus (known familiarly as the Daniell cell) to prevent such liberation and thus maintain a continuous and even current. In this apparatus the zinc and its attendant dilute sulfuric acid are separated from the opposite copper electrode and a solution of copper sulfate by a porous barrier, such as a piece of ox gullet. This arrangement effectively prevents the formation of hydrogen gas at the copper electrode and thus enables the battery to function unimpaired for long periods of time. The use of such cells, often coupled together in long chains to give

a large electromotive force, gave great impetus to research in all branches of current electricity and also led to commercial application in gilding, electroplating, and glypography.” *DSB*. John Daniell was one of the most distinguished scientists of the nineteenth century. Daniell is best-known for his work in meteorology, chemistry and electricity, and his technical ingenuity and inventions. Daniell was first professor of chemistry at King’s College when it was established in 1831 and devoted the rest of this days to teaching and developing careful and elaborate experimental illustrations for his lectures. His invention of the constant battery, universally known by his name, garnered Daniell the Copley Medal of the Royal Society in 1836. His papers on voltaic combinations won him the Royal Society medal in 1842.

☼ *DNB*, V, p. 483; *DSB*, III, p. 556-558; Haskell Norman Library 579 (offprint); Honeyman Sale 821 (offprint); Ihde, *The development of modern chemistry*, p. 469; Partington, *History of chemistry*, IV, pp. 127, 685; Poggendorf, I, col. 519; Wheeler Gift Catalogue 2704 (six letters). S4143

226. **DANIELL, John Frederic** (1790-1845). Further observations on voltaic combinations. In a letter addressed to Michael Faraday.... In: *Philosophical Transactions of the Royal Society of London*. For the year MDCCCXXXVII, Vol. 127, Part I [with Part II]. London: Richard and John E. Taylor, 1837. Two parts in one volume. 304 x 242 mm. 4to. Pages 141-160. [Entire volume: x, [2], (1)-178, [4]; vi, (179)-258, 347-363, [1 blank], 427-446, [4] pp.] Tables, 1 engraved plate. Early green cloth (ca. 1909), printed paper spine label, original plain blue wrappers to Part I bound in; lightly rubbed, head of spine chipped. Bookplate of the Plainfield Public Library, Plainfield, New Jersey, rubber stamps on edges. SIGNED “Dr. Olbers, Bremen” in ink on original top wrapper. Very good.

\$ 250

Further letter from Daniell to Faraday (Wheeler lists six letters, 1836-1842) in which Daniell presents his battery and defends the chemical theory of the voltaic cell. PROVENANCE: Heinrich Wilhelm Matthias Olbers (1758-1840) practiced medicine in Bremen and was held in great esteem by his contemporaries, especially for his work in the field of astronomy, which he pursued as an avocation and in which he made significant contributions. His correspondents included Carl Friedrich Gauss (1792-1878), Friedrich Wilhelm Bessel (1784-1846), Johann Franz Encke (1791-1865), Anton von Schröter (1802-1875), and other astronomers. See: *DSB*, X, pp. 197-199.

☼ *DNB*, V, p. 483; *DSB*, III, p. 556-558; Partington, *History of chemistry*, IV, pp. 127, 685; Wheeler Gift Catalogue 2704 (page numbers in error). S4144

227. **DARROW, Karl K.** [comp.]. *Classified List of Published Bibliographies in Physics, 1910-1922*. Washington, D.C.: National Research Council of the NAS, 1924. Series: *Bulletin of the National Research Council*, Vol. 8, Part 5, July, 1924, No. 47. 8vo. v, 102, ads. [6] pp. Index. Printed wrappers. Former library copy. Very good. Z1170 \$ 8

228. **DARWIN, Charles**. *The Origin of Species by Means of Natural Selection, or the preservation of favoured races in the struggle for life. Sixth edition, with additions and corrections to 1872.* (Thirtieth thousand). London: John Murray, 1886. 8vo. xxi, 458 pp. Folding diagram (facing p. 90), index; lacks front free-endpaper. Title-page signature of early owner, R.L. Rutherford (see provenance note). From the collection of Philip S. Hench, Nobel Prize winner for Medicine in 1950.

\$ 525

Darwin’s book introduced the scientific theory that populations evolve over the course of generations through a process of natural selection. The sixth edition is

often considered the definitive edition. Darwin made extensive revisions to the sixth edition of the *Origin* (this was the first edition in which he used the word ‘evolution’), and added a new chapter VII, Miscellaneous objections, to address George Jackson Mivart’s arguments.⁵ The sixth edition was published by Murray on 19 February 1872 with the word “On” dropped from the title of the original printing of 1859.

“In the sixth edition Darwin inserted a new chapter VII (renumbering the subsequent chapters) to respond to criticisms of earlier editions, including the objection that many features of organisms were not adaptive and could not have been produced by natural selection. He said some such features could have been by-products of adaptive changes to other features, and that often features seemed non-adaptive because their function was unknown, as shown by his book on *Fertilisation of Orchids* that explained how their elaborate structures facilitated pollination by insects. Much of the chapter responds to George Jackson Mivart’s criticisms, including his claim that features such as baleen filters in whales, flatfish with both eyes on one side and the camouflage of stick insects could not have evolved through natural selection because intermediate stages would not have been adaptive. Darwin proposed scenarios for the incremental evolution of each feature.” [Chapter VII pp. 168-204].



PROVENANCE: Ralph Leslie Rutherford (1894-1952) Dr. Rutherford taught Geology at the University of Alberta for 30 years. As one of the foremost petroleum geologists in the province, his expertise was in great demand in the industry. He was also active in numerous professional and scientific societies. Although he suffered from heart disease, he never complained and continued to work hard until his death. He died at his home in Edmonton only hours after leaving his students in the mineralogy laboratory.

See: Memorial to Ralph Leslie Rutherford [1894-1952] : Geol. Assoc. Canada Proc. 1952, v. 5, p. 127, port., Sept. 1952. 6. See also: Ralph Leslie Rutherford Memorial Volume, 1954.

229. **DARWIN, Charles.** *The Descent of Man, and selection in relation to sex. Second edition, revised and augmented. Twenty-seventh thousand.* London: John Murray, 1890. 8vo. xvi, 693 pp. 78 figs., index. Original dark green blind and gilt-stamped cloth. Personal inscription to W.R. Purchas, 1890. Freeman 970.

\$ 85

Second edition, twenty-seventh thousand, of Darwin’s second great book on evolutionary theory and the first title to contain the word ‘evolution,’ preceding its appearance in the sixth edition of *The Origin of Species*.

230. **DARWIN, Charles.** *The Formation of Vegetable Mould, through the action of worms, with observations on their habits. Fifth thousand (corrected).* London: John Murray, 1881. 8vo. vii, 326, ads. [2] pp. Figs., index. Original; publisher’s green blind-and gilt-stamped cloth; paper stamp affixed to spine. Bookplate of Major Alexander Henry Davis (1839-1910). Davis, long a resident of Syracuse, NY, attended Hobart College, Germany and made his fortune in investments and railroading. He lived the last twenty years of his life in London. Fine copy.

\$ 175

5 Used in the transformist sense by Charles Lyell in 1832, *Principles of Geology* vol. 2, p. 11; and by Darwin in *The Descent of Man* in 1871, p. 2 onwards.

231. **[DARWIN, C.] R.B. FREEMAN.** *Charles Darwin; a Companion.* (Folkstone, UK): Dawson, (1978). 8vo. 309 pp. Text figs. Green cloth, gilt-stamped spine title, dust jacket. Burndy bookplate. Fine. \$ 75
232. **[DARWIN, E.] KING-HELE, Desmond.** *The Essential Writings of Erasmus Darwin.* (London): MacGibbon & Kee, (1968). FIRST EDITION. 8vo. 223 pp. 16 photos, index. Orange cloth, gilt-stamped spine title, dust-jacket. Ownership rubber stamp of M.W. Strickberger. Fine. \$ 28
233. **DASTON, Lorraine** (editor). *Biographies of Scientific Objects.* Chicago & London: University of Chicago Press, (2000). 8vo. viii, 307 pp. Figs., index. Printed wrappers. Fine.

\$ 20

“Why does an object or phenomenon become the subject of scientific inquiry? Why do some of these objects remain provocative, while others fade from center stage? And why do objects sometimes return as the focus of research long after they were once abandoned?”

“Addressing such questions, *Biographies of Scientific Objects* is about how whole domains of phenomena—dreams, atoms, monsters, culture, society, mortality, centers of gravity, value, cytoplasmic particles, the self, tuberculosis—come into being and sometimes pass away as objects of scientific study. With examples drawn from both the natural and social sciences, and ranging from the sixteenth to the twentieth centuries, this book explores the ways in which scientific objects are both real and historical. Whether discovered or invented, these objects of inquiry broaden and deepen in meaning—growing more “real”—as they become entangled in webs of cultural significance, material practices, and theoretical derivations. Thus their biographies will matter to anyone concerned with the formation of scientific knowledge.”

Contents: Introduction: The Coming into Being of Scientific Objects; Lorraine Daston; 1. Preternatural Philosophy, [by] Lorraine Daston; 2. Mathematical Entities in Scientific Discourse: Paulus Guldin and His *Dissertatio de motu terrae*, [by] Rivka Feldhay; 3. Dreams and Self-consciousness: Mapping the Mind in the Late Eighteenth and Early Nineteenth Centuries, [by] Doris Kaufmann; 4. Mutations of the Self in Old Regime and Postrevolutionary France: From Ame to Moi to le Moi, [by] Jan Goldstein; 5. The Coming into Being and Passing Away of Value Theories in Economics (1776-1976), [by] Gérard Jorland; 6. “An Entirely New Object of Consciousness, of Volition, of Thought”: The Coming into Being and (Almost) Passing Away of “Society” as a Scientific Object [by] Peter Wagner; 7. “Sentimental Pessimism” and Ethnographic Experience: Or, Why Culture Is Not a Disappearing “Object” [by] Marshall Sahlins; 8. How the Ether Spawed the Microworld, [by] Jed Z. Buchwald; 9. Life Insurance, Medical Testing, and the Management of Mortality, [by] Theodore M. Porter; 10. On the Partial Existence of Existing and Nonexisting Objects, [by] Bruno Latour; 11. Cytoplasmic Particles: The Trajectory of a Scientific Object, [by] Hans-Jörg Rheinberger. ISBN: 0226136728 / 0-226-13672-8

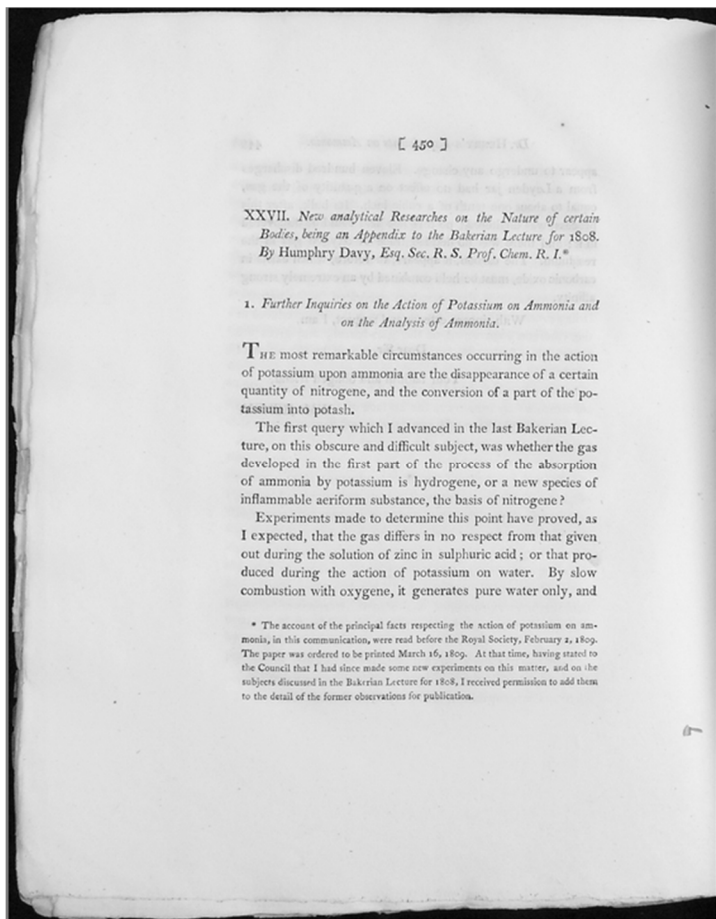
Discovery of Chlorine

234. **DAVY, Sir Humphry** (1778-1829). *Researches on the oxy muriatic acid, its nature and combinations; and on the elements of the muriatic acid. With some experiments on sulphur and phosphorus, made in the laboratory of the Royal Institution.* In: Philosophical Transactions

of the Royal Society of London for the year MDCCCX, Part II. London: Printed by W. Bulmer, 1810. 292 x 235 mm. 4to. Pages 231-257. [Entire issue: [iv], [2], (149), 323, [7, 1 blank] pp.] Original plain blue wrappers; rear cover and last leaf off, spine heavily chipped. Very good.

\$ 900

Discovery of Chlorine. Read to the Royal Society July 12, 1810. "In a paper read in July and in his fifth Bakerian lecture in November, he argued that oxymuriatic acid, contrary to his previous belief, was a simple body, and proposed for it the name 'chlorine.'" *Encyclopædia Britannica*. DSB, III, pp. 602-603; *Encyclopædia Britannica*, 11th ed., VII, p. 872; Fullmer, *Sir Humphry Davy's published works*, p. 61; Partington, *A history of chemistry*, IV, pp. 51-57; Poggendorf, I, col. 529; Weeks, *Discovery of the elements*, 3rd ed., 255-256. S4653



235. **DAVY, Sir Humphry** (1778-1829). *The Bakerian Lecture. An account of some new analytical researches on the nature of certain bodies, particularly the alkalis, phosphorus, sulphur, carbonaceous matter, and the acids hitherto undecomposed; with some general observations on chemical theory.* In: *Philosophical Transactions of the Royal Society of London*

for the year MDCCCIX, Part I. London: Printed by W. Bulmer, 1809. 292 x 235 mm. 4to. Pages 39-104. [Entire issue: vi, [2], (1)-187, [1 blank], 26, [1], [1 blank] pp.] 4 figs. on 1 engraved plate. Original plain blue wrappers; spine heavily chipped. Very good.

§ 450

This is Davy's third Bakerian Lecture read to the Royal Society 15 December 1808 and printed in the *Philosophical Transactions*. The paper contains his report of the decomposition of boracic acid by heating with potassium and his conclusion that the basis of the acid is a metal which he named boracium. His other experiments led to his conclusions that a) nitrogen contains oxygen, b) sulphur and phosphorus contain small amounts of hydrogen and oxygen and c) plumbago, charcoal and the diamond differ in physical properties because of the differences in chemical composition and not because of the arrangement of parts. The plate depicts Davy's apparatus. Davy's work in the years 1806-1812 "did more for chemistry than the 60 [years] which followed them." Mottelay, *Bibliographical history of electricity & magnetism*, p. 344. "At the end of 1808 [Davy] read his third Bakerian lecture.... In it he disproved the idea advanced by Gay Lussac that potassium was a compound of hydrogen, not an element; but on the other hand he cast doubts on the elementary character of phosphorus, sulphur and carbon, though on this point he afterwards corrected himself. He also described the preparation of boron, for which at first he proposed the name boracium, on the impression that it was a metal." *Encyclopaedia Britannica*, 11th ed., VII, p. 872.

☼ Cole, *Chemical literature*, 341; *DNB*, V, p. 640; *DSB*, III, p. 602; Fullmer, *Sir Humphry Davy's published works*, p. 54; Honeyman Sale 833; Mottelay, *Bibliographical history of electricity & magnetism*, p. 343; Partington, *A history of chemistry*, IV, p. 49; Poggendorf, I, col. 529; Zeitlinger, 3rd supplement, 2560. S4650

236. **DAVY, Sir Humphry** (1778-1829). *On a new detonating compound*. In: *Philosophical Transactions of the Royal Society of London* for the year MDCCCXIII, Part I. London: Printed by W. Bulmer, 1813. 292 x 235 mm. 4to. Pages 1-7. [Entire issue: iv, [2], 130, 26 pp.] Original plain blue wrappers; lacking spine. Very good.

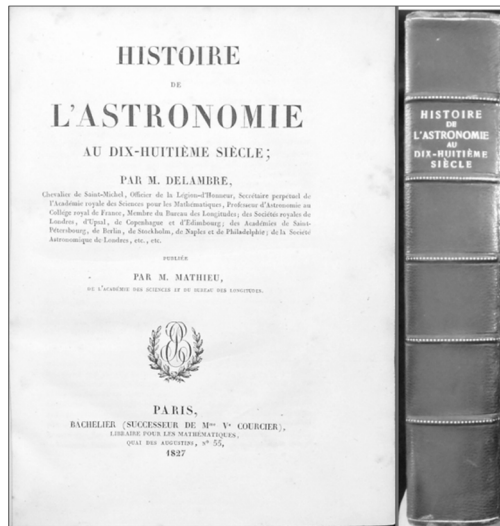
§ 225

Read to the Royal Society November 5, 1812. "This was the first announcement in this country of the discovery of nitrogen chloride, which cost Dulong, its discoverer, three fingers and one eye, while even Davy and Faraday (his assistant), who were fully aware of its dangerous properties, were injured by an explosion when experimenting with it." Zeitlinger.

☼ *DNB*, V, p. 641; Fullmer, *Sir Humphry Davy's published works*, p. 67; Partington, *A history of chemistry*, IV, pp. 57-58; Poggendorf, I, col. 529; Zeitlinger, 3rd supplement, 2574 (includes "Some further observations...."). S4654

237. **[DAVIDSON, Thomas** (1817-1885)] "Sketch of the Scientific Life of Thomas Davidson, F.R.S." Offprint from: *Geological Magazine*, Vol. VIII, No. 4, April 1871. Hertford: Stephen Austin and Sons, [1871]. (215 x 135 mm). 8 pp. Frontis. port. of Davidson. Printed wrappers; mildly creased. Old embossed stamps and library cover call number. Very good. RARE. Z1835 § 20

238. **DAVIS, Audrey B. & Mark S. DREYFUSS.** *The Finest Instruments Ever Made: A Bibliography of Medical, Dental, Optical, and Pharmaceutical Company Trade Literature; 1700-1939.* Arlington, MA: Medical History Publishing Associates I, (1986). FIRST EDITION. 8vo. viii, 448 pp. 12 illustrations (including half-title and frontis.), indexes. Dark blue cloth, copper stamped spine title. Fine. An outstanding bibliography of great value to anyone interested in antique astronomical and other optical instruments. ISBN: 0961674806 Z1177 \$ 32
239. **DAVIS, Herman S.** (1868-1933). *Declinations and Proper Motions of Fifty-Six Stars.* New York: New York Academy of Sciences, 1895. Series: New York Academy of Sciences. Memoir I. The Variation of Latitude at New York City. Part 1. Tall 8vo. 107 pp. Printed wrappers; wrappers soiled and chipped with pieces of spine missing. Faded purple stamp on cover. Fair. Z1178 \$ 20
240. [**DAVY, Humphry** (1778-1829)] **Thomas Edward THORPE** (1845-1925). *Humphry Davy: Poet and Philosopher.* New York: Macmillan, 1896. Series: *The Century Science Series.* 8vo. 240 pp. Gravure frontis. port. of Davy with tissue guard (tissue detached), index; bottom edge faintly water-stained, p. 153 marginally torn (text unaffected by either). Green cloth, gilt-stamped cover and spine titles; extremities a bit rubbed, inner hinges cracked. Former library copy. Good. Z1180 \$ 20
241. [**DE BEAUNE, Florimond** (1601-1652)]. Bernard Barbiche; Pierre Costabel. *Doctrine de l'angle solide; inventaire de sa bibliothèque.* Paris: Vrin, 1975. Series: *L'histoire des sciences: Textes et études; International Academy for the History of Science; Collection de travaux de l'Académie Internationale d'Histoire des Sciences, 19.* 8vo. 157 pp. 11 pls., figs., index. Printed wrappers. Inscribed (from?) --- to Roger Hahn. Very good +. \$ 34
Florimond de Beaune (1601-1652) French mathematician, friend of René Descartes, wrote *Notes brièves*, the first important introduction to Descartes' analytic geometry.
242. **DEBUS, Allen G.** *Science and Education in the Seventeenth Century; the Webster-Ward Debate.* London: MacDonal; New York: American Elsevier, (1970). Series: *History of science library, primary sources.* 8vo. Cloth. Ink ownership signature of David C. Lindberg. Very good. \$ 15
Lindberg writes in the volume: "Imperfect copy: final treatise is the wrong one; press run destroyed save for a few copies, of which this is one." The last paper was a reprinting of Thomas Hall, *Histrio-Mastix*, but instead they reprinted Hall's *Vindiciae Literarum*, (1654), pp.261-335 pp. ISBN: 444196595 / 444-19659-5
243. **DE DOMINIS, Marco Antonio; Tommaso BAGLIONI; Joannes BARTOLUS.** *De radiis visis et lucis in vitris perspectivis et iride tractatus Marci Antonii de Dominis.* Venetiis, Apud Thomam Baglionum., M. DC. XI. Ann Arbor: University Microfilms, [no date]. Photocopy facsimile of 1611 edition. Sm. 8vo. 78 pp. Figs. Blue wrappers. Very good. \$ 10
244. **DEKOSKY, Robert K.** *Knowledge and Cosmos: Development and decline of the Medieval Perspective.* (Washington, DC): University Press of America, (1979). 4to. viii, 325 pp. 43 figs., index. Yellow printed wrappers; edges stained. \$ 7



Best Source for History of 18th Century Astronomy

245. **DELAMBRE, Jean-Baptiste Joseph** (1749-1822). *Histoire de l'Astronomie au dix-huitième siècle*. *Publiée par M. Mathieu*. Paris: Bachelier ... 1827. One of 6 volumes (complete in itself for the 18th century). 257 x 201 mm. 4to. lii, 796 pp. Frontis. portrait of Delambre drawn and engraved by E. Desmoulins, tables, 3 folding plates. Later quarter maroon morocco, morocco corners, raised bands, gilt spine; lightly rubbed. Ownership signature of John Williams Streeter. "VCO May 1949." Complete sets are rare these days. Fine copy.

\$ 450

FIRST EDITION, published by Charles Mathieu after Delambre's death.

Delambre published the two volume *Histoire de l'astronomie ancienne* in 1817, followed by *Histoire de l'astronomie du moyen age* in 1819, adding two volumes of *Histoire de l'astronomie moderne* in 1821. The sixth and final volume is what is available here. It is a complete treatment of 18th century astronomy on its own.

Bernard Cohen offers: "Delambre's *Histoire de l'Astronomie* is a work without parallel in any of the sciences. It is a technical work, written – as he said – 'mainly for astronomers, and mathematicians in general.'" "Delambre ... presents each major chronological period in a series of discrete analyses of one treatise ... after another." Delambre's work provides no synthesis, no generalization, no display of insight into the causes for progress of decline; the reader is provided rather with the contents of the works treated by Delambre, "a critical estimate of its worth, and then he compares and contrasts several works by the same author." Delambre "is especially good on astronomical tables and on methods of observation and calculation. A great virtue is the wealth of information on minor figures, for whom no other account may be available. "Above all, Delambre spices his presentation with acerb and delightful comments. UNQUESTIONABLY THE SIX-VOLUME HISTOIRE IS THE GREATEST FULL-SCALE TECHNICAL HISTORY OF ANY BRANCH OF SCIENCE EVER WRITTEN BY A SINGLE INDIVIDUAL. IT SETS A

STANDARD VERY FEW HISTORIANS OF SCIENCE MAY EVER ACHIEVE.” – I. Bernard Cohen, *DSB*.

Delambre, suffered from small pox before he was 1 year of age, but he (obviously) survived, losing his eyelashes and he nearly lost his eyesight as well. Apparently his eyesight improved slowly with age. He studied at the Jesuit College in Amiens. He was awarded a scholarship to the Collège du Plessis in Paris and there he studied classical languages preparing for a university education. He became determined to teach himself mathematics and become exceptional in calculations. In discovered Lalande’s work in 1780 and began studying under him at the Collège de France. “When Lalande was looking for a new assistant in 1783 to undertake observations for a new edition of his *Traité d’astronomie*, he turned to Delambre who was his best student. Lalande lent Delambre some equipment and the observational data he collected with it was incorporated into the third edition of Lalande’s *Traité d’astronomie* which would appear in print in 1792. In 1786 Delambre recorded a transit of Mercury across the Sun. At the time which had been predicted for the transit there was cloud and nothing was visible. Most astronomers gave up, but not Delambre who did not believe that the time predicted for the transit by Lalande was correct. When the cloud cleared forty minutes after the transit was predicted to end, Delambre was able to observe that the transit was still taking place. It was the realization that the existing tables were inaccurate which led him to devote much effort into producing new ones.” Lalande won the 1789 Grand Prix for the calculation of the precise orbit of Uranus. The tables for which he is best known were developed under the observatory that was fitted for Delambre, and in 1792 he published *Tables du Soleil, de Jupiter, de Saturne, d’Uranus et des satellites de Jupiter*. He also worked at the bureau of longitudes (published in 1806). Arago stated “In perfecting the methods of astronomical calculation he merits, by reason of the variety and elegance of his methods, a distinguished place among the ablest mathematicians

France can boast.” He became a Fellow of the Royal Society in 1791, and of the Royal Society of Edinburgh in 1820.



John W. Streeter

1953

PROVENANCE: John Williams Streeter, born at Manchester, Massachusetts (Sept. 9, 1908), graduated from Yale in 1931, received masters’ degrees from the University of Arizona and Harvard College, taught astronomy at Brown University, member of the American Astronomical Society, the History of Science Society, and Research Society of America, historian of science, expert in rockets and earth satellites, worked at the Franklin Institute, Philadelphia. He made contributions to *Popular Science* and *ISIS*.

See: *The History of the Rittenhouse Astronomical Society 1888-1960*.

☼ *DSB*, vol. IV, pp. 14-18; C L Mathieu, Jean Baptiste Joseph Delambre, *Biographie universelle* (Paris), 304-308.

246. **DE LA CAILLE, Lanné** [**Nicolas Louis de La Caille** (1713-1762)]. *Leçons Élémentaires d'Astronomie Géométrique et Physique. Nouvelle édition, revue, corrigée, & augmentée.* Paris: H.L. Guerin & L.F. Delatour, 1761. 8vo. vi, 415 pp. 9 folding plates, tables, math figures, errata (p. 415). Early blind-ruled full mottled calf, rebaked in calf, gilt spine, five raised bands, modern red leather title label, a.e. red; original board pock-marked, corners worn. Bookplate of Eric Havemann. Very good.

§ 300

This is one of several books Lacaille wrote as professor at the College Mazarin; these works were on mathematics (1741), mechanics (1743), geometrical and physical astronomy (1746), and optics (1750). Widely translated and popular, a fourth edition of the astronomy text was printed 1779; our edition is considered the either a second or third edition. The first English translation was issued in 1750 [*The elements of astronomy*]. The work is arranged in 1187 short lessons.

He was also interested in the question of finding longitude at sea (nos. 1145-1159). For this he used the Moon to help determine longitude.

Lacaille, though self-taught in math and astronomy, has been called one of the greatest observers of the 18th century and a pioneer of mapping the southern sky. The catalogue contained nearly 10,000 stars and was published posthumously in 1762/3 as *Coelum Australe Stelliferum*.⁶ It introduced 14 new constellations which have since become standard.[2] He also calculated a table of eclipses for 1800 years (see p. 363 this text). In 1754, de Lacaille was elected a foreign member of the Royal Swedish Academy of Sciences. He was also elected an honorary member of the academies of Saint Petersburg and Berlin, the Royal Society of London and the Royal Society of Göttingen, and the Institute of Bologna.

See: Virginia Trimble, Thomas R. Williams ((eds.), et.al., etc.), *The Biographical Encyclopedia of Astronomers*, Volume 2.

247. **DE MARICOURT, Pierre Pelerin** (French); **DE MARICOURT, Petrus Peregrinus** (Latin) **Bro. POTAMIAN (M.F. O'REILLY)**. "Petrus Peregrinus – Author of the Earliest Treatise on the Magnet, A.D. 1269." Offprint from: *Electrical World and Engineer*, 1904. March 12 and 19, 1904. (230 x 150 mm). 11 pp. 3 figs. Printed wrappers. Fine. Z1832

§ 20

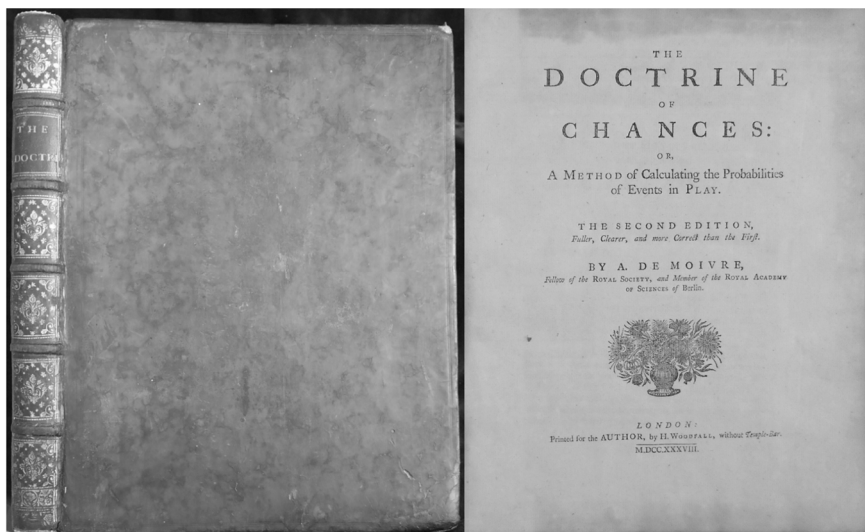
248. **DE MORGAN, Augustus**. *A Budget of Paradoxes*. London: Longmans, Green, 1872. 8vo. vii, 511, 24 [ads.] pp. Half-title, index, ads dated March 1872; two bookseller descriptions mounted on verso of half-title, lightly foxed. Original purple blind-stamped cloth, original endpapers; joints splitting, rubbed, extremities worn. Bookplate of Sir Thomas Sebastian Bazley (1829-1919). Good.

§ 35

Collection of witty and enthusiastic scientific essays, edited by his widow, originally published in the Athenaeum, by the English mathematician who made original contributions in the field of analysis and logic, and "exerted a considerable influence on the development of mathematics in the nineteenth century." – DSB IV p. 35. The text is "describing the various attempts which have been made to invent a perpetual motion, to square the circle or to trisect the angle ..." *Britannica*, 11th ed.

Sir Thomas Sebastian Bazley (1829-1919), the second Baronet, was a Justice of the

⁶ Published by the Académie Royale des Sciences in 1756.



*A key work by the father of probability theory
Scholar's Annotated Copy with Numerous Contemporary Notes*

249. **DE MOIVRE, Abraham** (1667-1754). *The Doctrine of Chances: or, A Method of Calculating the Probabilities of Events in Play. The second edition, fuller, clearer, and more correct than the first.* London: Printed for the Author, by H. Woodfall, 1738.4to. [4], xiv, 258, [1] pp. Engraved vignette on title-page, engraved allegorical headpiece showing games of chance being played by children and adults, etc. (see below), text figs. Original full antique blind-ruled mottled calf, elaborately gilt-stamped spine compartments and title on leather label; extremities worn, corners showing, rear cover with gauge on bottom edge. Bookplate removed. MULTI-LINE INSCRIPTION BY EARLY OWNER ON FFEP, WITH NUMEROUS INK MARGINALIA CORRECTIONS (bi-lingual, in French or in English), SOME ANTICIPATING CORRECTIONS ADDED NOT UNTIL THE THIRD EDITION (1756). Very good.

§ 2,500

SECOND EDITION, greatly improved and augmented over previous version[s]. This is a key work by the father of probability theory in which major steps in the measurement of uncertainty were achieved. De Moivre is “best known in statistical circles for his famous large-sample approximation to the binomial distribution, whose generalization is now referred to as the Central Limit Theorem. De Moivre was one of the great pioneers of classical probability theory.” [Bellhouse-Genest, p.1]. It is the first systematic treatment of probability in English. Abraham De Moivre became, with Edmund Halley, a founder of English actuarial science. The author’s dedicatory letter is address to Lord George Carpenter (1702-1749) (the first edition had been dedicated to Newton), where the author states emphatically “that this *Doctrine* is so far from encouraging Play, that it is rather a Guard against it...” [DNB, vol. 38, p.116].



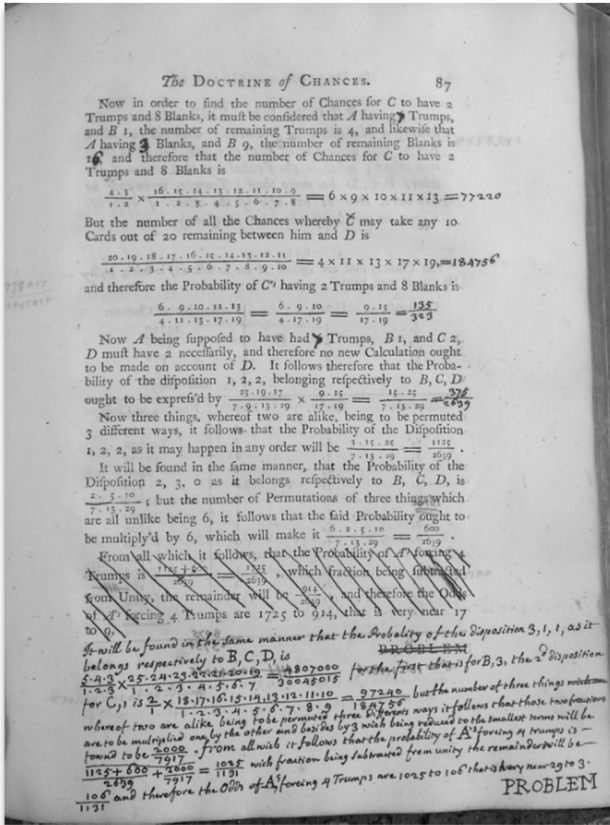
THE ENGRAVING, drawn by painter & etcher Joseph Goupy and carried out by Bernard Baron, depicts the Goddesses Minerva (of Wisdom) and Fortuna, the former pointing to the Goddess of fortune with the Cornucopia of plenty available to her, shown at her feet, Fortuna holds a depiction of De Moivre's original mathematical discoveries on circular sections, where a semi-circumference, whose divisions replicate the spokes of a wheel, overlaps a wheel of fortune. [Bellhouse-Genest p.15; also: Bellhouse, (2011) pp. 116-117]. The clean-shaven man is the author himself, he does not address the Gods himself, but his audience is mortals, being ancient philosophers or mathematicians receiving instruction from the enlightened author (De Moivre is very aware of earlier figures such as Bernoulli, Monmort, etc.). Bellhouse offers, "the interpretation is that De Moivre's mathematical results dominate fickle fortune or fate."

De Moivre, born at Vitry, received a varied education and settled in London as a Huguenot refugee in 1688. In England he continued his study of mathematics while working as a tutor. He is said to have acquired (and read) a copy of Newton's *Principia* and even to have carried loose sheets around with him to study at every available moment. This method of study worked so well that not only did he become one of England's foremost mathematicians, but Newton, in old age, was in the habit of referring questions about the *Principia* to De Moivre. De Moivre's *Doctrines of Chance* is in fact a revised and expanded translation of his essay *De Mensura Sortis* which had been published in Latin in the *Philosophical Transactions* in 1711. In its Latin form it thus preceded Jacob Bernoulli's *Ars Conjectandi* (1713) by a full two years.

"De Moivre's first book on probability was based upon a short memoir entitled *De mensura sortis*, published in the 1711 volume of the *Philosophical Transactions*. The 1718 first edition is essentially a gambler's manual, giving a systematic presentation of the arithmetic principles upon which are based the solution of problems concerning the advantage of players and size of wager which may be laid in a wide variety of games of chance. [Walker]. It does not contain De Moivre's work on the normal approximation of the binomial probability distribution, which ranks as the most memorable of his discoveries; this

discovery was first printed in its entirety in 1733 in a Latin pamphlet, which was later translated into English and incorporated, in successively expanded versions, in the second (1738) and [posthumous] third (1756) edition of *The doctrine of chances.*" [Norman].

De Moivre was a French mathematician famous for De Moivre's formula, which links complex numbers and trigonometry, and for his work on the normal distribution and probability theory. He was elected a Fellow of the Royal Society in 1697, and was a friend of Isaac Newton, Edmund Halley, and James Stirling. Among his fellow Huguenot exiles in England, he was a colleague of the editor and translator Pierre des Maizeaux.



In terms of mathematics applied to the human actuarial lifespan, "De Moivre, French Huguenot mathematician and demographer, formulated the hypothesis that among a body of persons over a certain age the successive annual decreases by death are nearly equal." [Garrison & Morton].

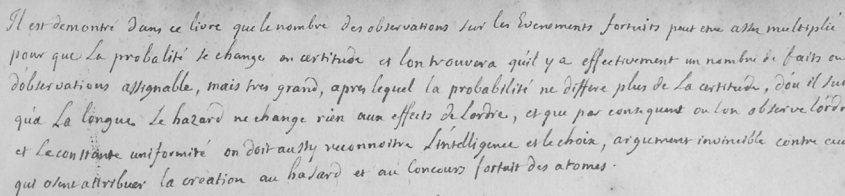
Shafer points out that De Moivre, one of Jacob Bernoulli's successors, was among those who were applying Huygens' theories to both games and

economies (p. 11). He points out that the 1718 first edition was influenced by Bermoulli in that he used the word "probability" which was a word he did not use in his *De mensura sortis*. He continues: "We should not exaggerate De Moivre's importance in the eighteenth century. In retrospect, he represents the pat that mathematical probability followed, but he was hardly a philosopher of Jacob's caliber, and Jacob retained a strong influence throughout the century among those who wanted to understand probability philosophically. Jacob's and Hooper's rules survived the whole course of that century in the works of philosophically sophisticated writers such as Lambert and Diderot. They disappeared only after

Bayesian alternatives were developed by Laplace.” (pp. 13-14). Steve Stigler⁷ and Lorraine Daston expand on the use of the word “probability” in the eighteenth century.

Theodore Porter (UCLA) writes that De Moivre introduced the astronomer’s law error to probability theory (p. 93). “Like most early probability mathematics, it first arose in the context of games of chance; it appeared as the limit of the binomial distribution. Because of its usefulness in combination and permutation problems, the binomial had become the heart of the doctrine of chances.... De Moivre then showed in a paper of 1733, reprinted in 1738 in the second edition of his *Doctrine of Chances*, that the exponential error function gave a very good approximation to the distribution of possible outcomes for problems like the result of 1,000 coin tosses. Now, for the first time, it was practicable to apply probability theory to indefinitely large numbers of independent events.”

THE HOLOGRAPH ANNOTATIONS ARE THROUGHOUT the text, in either French or English. Both appear to be the same period and the same intellectual level of appreciation—seemingly likely being the same person. The ffeep gives the following unsigned inscription:



Il est démontré dans ce livre que le nombre des observations sur les Evénements fortuits peut être assez multiplié pour que la probabilité se change en certitude et l'on trouvera qu'il y a effectivement un nombre de faits ou d'observations assignable, mais très grand, après lequel la probabilité ne diffère plus de la certitude, d'où il suit qu'à la longue le hazard ne change rien aux effets de l'ordre, et que par conséquent ou l'on observe l'ordre et la constante uniformité on doit aussi reconnaître l'intelligence et le choix, argument invincible contre ceux qui osent attribuer la création au hazard et au concours fortuit des atomes.

“Il est démontré dans ce livre que le nombre des d’observations sur les Evénements fortuits peut être assez multiplié pour que la probabilité se change en certitude et l’on trouvera qu’il y a effectivement un nombre de faits ou d’observations assignable, mais très grand, après lequel la probabilité ne diffère plus de la certitude, d’où il suit qu’à la longue le hazard ne change rien aux effets de l’ordre, et que par conséquent ou l’on observe l’ordre et la constante uniformité on doit aussi reconnaître l’intelligence et le choix, argument invincible contre ceux qui osent attribuer la création au hazard et au Concours fortuit des atomes.”

Other pages have either single ink manuscript annotation (corrections) or marginalia, such as “#=10015005 that is the whole number of chances whereby and 9 cards may be taken out of 29.” (p. 85). Later: “Pour l’application de cette formule il faut substituer les valeurs de P, Q, R, S, savoir $P=a/n$...”

David Bellhouse writes [to JWRB] about the annotations in this copy, “In view of the French notes, I am guessing that the writer was probably a Huguenot and possible a minister. De Moivre had several Huguenot friends and at least one or two of them were clergymen.” “There were several very good amateur mathematicians in

⁷ Stephen Stigler writes that Jean-Baptiste Lagrange was once interested in making a French or Italian translation of De Moivre’s *Doctrine of Chances*, but this appears to have been an unfinished project.

England at the time. Many wanted to understand Newton's work to get an appreciation for the workings of the universe. One Nonconformist minister (who was competent at mathematics), Phillip Doddridge wrote that it was important to understand mathematics in order to understand God's creation. This comes out in the annotation in French."

Stigler writes of the annotations [also to JWRB], "The 1740s were a very quiet time in probability, except for [De Moivre and Thomas] Simpson, but there were a number of amateurs." He speculates that the English and French notations could have been by different persons.

✧ Babson 181 (1st ed.); Ball, *A short account of the history of mathematics*, pp. 383-4; BM Readex Vol. 17, p. 751; Cajori, *History of Mathematics*, pp. 229-30; DNB, vol. 38, p.116; Kress S.2793; Institute of Actuaries (1935) p. 39; Mansutti 504; Norman 1529 (1st ed.); Pearson, *The History of Statistics in the 17th & 18th Centuries...*, pp. 155-60, 165-66; Smith, *Source book in mathematics*, pp. 440-54; Stigler, *The History of Statistics: The Measurement of Uncertainty before 1900* (1986), p. 70; Todhunter, *History of the theory of probability*; Walker pp. 12-13; Wellcome IV, p. 149; Westergaard pp. 104-5. Not in Goldsmiths or Hanson.

See: Bellhouse, David R., *Abraham De Moivre*, 2011; Bellhouse, David R. & Christian Genest, "Maty's Biography of Abraham De Moivre, Translated, Annotated and Augmented," – *Statistical Science*, vol. 22, no. 1, (2007), pp. 109-136; Garrison & Morton 1690; Glenn Shafer, "The Significance of Jacob Bernoulli's *Ars Conjectandi* for the Philosophy of Probability Today." [Rutgers] *Journal of Econometrics*, 75 pp. 15-32, 1996; Porter, Theodore M., *The Rise of Statistical Thinking, 1820-1900*. Princeton University Press, (1986).

250. **Deutschen Seewarte.** *Katalog der Bibliothek der Deutschen Seewarte zu Hamburg.* Hamburg: Hammerich & Lesser, 1890. 8vo. 619 pp. Index. Quarter black cloth with tips and marbled paper boards, gilt-stamped spine title; extremities a bit worn. Very good. Z1184

§ 275

Includes almost 11,000 citations in author, title, place and date format. Organized alphabetically under 18 different main and many sub-headings. Very strong in meteorological works. The index is indispensable. An important scientific library of 10, 660 works, mainly on meteorology, hydrography, physics, electricity, and magnetism. The library was founded in 1875 and incorporates the large and fine collection of Heinrich W. Dove (1803-79), one of the greatest meteorologists of the 19th century (DSB). The previous owner is almost certainly German physicist and meteorologist Johann Friedrich Wilhelm von Bezold (1837-1907) with his ownership signature.

251. **Deutschen Seewarte.** *I[-IV]. Nachtrag zum Katalog der Bibliothek der Deutschen Seewarte zu Hamburg.* Hamburg: Hammerich & Lesser, 1894-1921. Four issues. 8vo. vi, 92; vi, 142; viii, 341; [vii], 124 pp. Indexes. Printed wrappers (Issue I is bound in quarter black cloth with corners and printed paper boards); wrappers a bit soiled and worn. Some pages uncut. Ink stamps to front covers of Issue III and IV. Very good. Rare. Z1185

§ 100

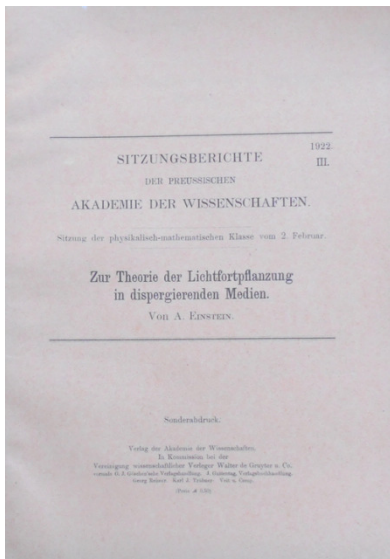
The first two issues bear the ownership signature of "v. Bezold", most likely German physicist and meteorologist Johann Friedrich Wilhelm von Bezold (1837-1907).

252. [DESCARTES] **A. Mark SMITH**. *Descartes's Theory of Light and Refraction: A Discourse on Method*. Philadelphia: Transactions of the American Philosophical Society, 1987. Series: *Transactions of the American Philosophical Society*, vol. 77, part 3, 1987. 8vo. 92 pp. 22 figs., index. Original printed wrappers. Fine. INSCRIBED BY THE AUTHOR TO DAVID C. LINDBERG. ISBN: 0871697734 \$ 20
253. **DE VRIES, Hugo**. *Species and Varieties: Their Origin and Mutation. Lectures delivered at the University of California...* Edited by Daniel Tremblay MacDougal. With an Introduction by Joseph Anthony Magzoo. New York: Dabor Science, (1977). 8vo. xviii, 847 pp. Index; rubber stamp on front endleaf. Gilt-stamped navy cloth. Fine. ISBN: 0895610167\$ 60
254. [DEWEY, John (1859-1952)] **Milton Halsey THOMAS** (1903-1977) & **Herbert Wallace SCHNEIDER** (1892-1984). *A Bibliography of John Dewey*. New York: Columbia University Press, 1929. FIRST EDITION. 8vo. xxi, 151 pp. Frontis. port. of Dewey with facsimile signature, index. Navy cloth, gilt-stamped cover emblem and spine title. Very good. Z1187 \$ 22
255. **DIBNER, Bern; Burndy Library**. *Heralds of Science; as Represented by Two Hundred Epochal Books and Pamphlets in the Dibner Library, Smithsonian Institution. Preface and Notes by Bern Dibner; Introduction by Robert P. Multhauf*. Norwalk, CT & Washington, DC: Burndy Library & Smithsonian Institution, (1980). 25th Anniversary edition. 4to. xiii, 96 pp. Illus. Blue blind-stamped cloth, gilt spine. Very good +. \$ 25
256. **DICKS, D.R.** *Early Greek Astronomy to Aristotle*. Ithaca & New York: Cornell University Press, (1970). Series: *Aspects of Greek and Roman Life*. 8vo. 272 pp. Figs., index; considerable ink underlining. Cloth, dust-jacket. Ownership ink signature of David C. Lindberg. Very good (noting underlining by Lindberg). \$ 4
257. **DOLEZAL, E.** *Ingenieur Gustav Kammerer*. Vienna and Leipzig: Carl Fromme, 1915. Series: *Mitteilungen von Theodor Scheimpfug, Flugbildmessung*, Wein III., Erdbergerlände 6. II. Jahrgang 1915, Nr. 1. (280 x 195 mm). 4to. 9 pp. Frontis. port. of Kammerer. Printed wrappers. Originally printed in *Internationales Archiv für Photogrammetrie*, Band V, Heft 1. Fine. Z1839 \$ 20
258. **DOPPLER, Christian Johann** (1803-1853)] **Karl HAAS**. "Christian Doppler und seine Entdeckungen. Festvortrag gehalten im Festsale des k. k. Staatsgymnasiums im VI. Bezirke am 28. November 1903." Offprint from: *Vierteljahrsberichten des Wiener Vereines zur Förderung des physikalischen und chemischen Unterrichtes*. Vienna: Wiener Vereines zur Förderung des physikalischen und chemischen Unterrichtes, 1904. (250 x 170 mm). 15 pp. Frontis. port. of Doppler with facsimile signature and tissue guard, figs. Printed wrappers. Very good. Z1840\$ 50
259. **DRACHMAN, Julian Moses**. *Studies in the Literature of Natural Science*. New York: Macmillan Company, 1930. FIRST EDITION. 8vo. x, (xi), 487 pp. 6 plates, index. Navy cloth, gilt-stamped spine title, dust-jacket; front cover a bit spotted, jacket spine ends a little chipped. Very good. Z1197 \$ 25
260. **DRAPER, John William**. *History of the Conflict between Religion and Science*. New York: D. Appleton, 1898. 8vo. xxiii, 373 pp. Index; pages x-xi heavily stained. Brick-red cloth; faded, worn, corners showing, rear hinge cracked. Fair. \$ 8

261. **DUGAS, René.** *Mechanics in the Seventeenth Century (From the Scholastic Antecedents to Classical Thought.)* Foreword by Louis de Broglie. Translated by Freda Jacquot. Neuchatel: Éditions du Griffon, 1958. 8vo. Some pages ink underlined: pp. 252, 180 etc. Figs., index. Cloth. Ink ownership signature of David C. Lindberg. Very good (noting underlining). \$ 30
262. **DUNLOP, James (1793-1848)] Ex-Bailie Archibald DUNLOP.** *Dunlop of that Ilk. Memorabilia of the Families of Dunlop... With Three Portraits.* Glasgow: Kerr and Richardson, 1898. Limited edition, being one of 500 copies. 4to. xiv, (xv), 150 pp. Photogravure frontis. port. of John Dunlop with facsimile signature and tissue guard, two color title (printed in red and black), photogravure port. of James Dunlop (1811-1893) with facsimile signature and tissue guard, full page illustration; some foxing. Burgundy cloth, printed paper spine label; spine label rubbed, with light wear to head of spine. This copy with a PRESENTATION INSCRIPTION: "To M. Dunlop, Esq., Bristol, from James Allan, Glasgow, March 1898." Very good. Z1205 \$ 85
263. **DUNLOP, James (1793-1848)] John SERVICE (1815-1916).** *Thir Notandums, Being the Literary Recreations of Laird Canticarl of Mongrynen (of Kittler Memory). To Which Is Appended A Biographical Sketch of James Dunlop, Esq...* Edinburgh and London: Young J. Pentland, 1890. 8vo. xiii, 222 pp. Maroon cloth, gilt-stamped spine title; some offsetting to covers, spine ends a bit worn, spine slightly stained. Bookplate of Bryan Gandevia, M.D.; some inked and penciled annotations to front endleaves. Very good. Z1206 \$ 42
264. **DYSON, Frank Watson (1868-1939)] Margaret WILSON.** *Ninth Astronomer Royal: The Life of Frank Watson Dyson.* Cambridge: Published for the Dyson Family by W. Heffer & Sons, (1951). 8vo. xiv, 294 pp. Frontis. port. of Dyson, plates, index. Green cloth, gilt-stamped spine title, dust-jacket; jacket worn and soiled. Very good. Z1208 \$ 42
265. **E. Weingart.** Catalog Nos. 106-108, 111-113, 115-117. Erfurt: H. Bart, [c. 19th century]. 9 bookseller catalogs. Single sheets printed on both sides; No. 112 has a marginal tear. Fine. Rare. Z1222 \$ 45
266. **EAMON, William.** *Science and the Secrets of Nature; Books of Secrets in Medieval and Early Modern Culture.* Princeton: Princeton University Press, (1994). 8vo. xv, 490 pp. Index. Cloth, dust-jacket. INSCRIBED BY THE AUTHOR to David C. Lindberg. \$ 65
The author is interested in the process of presenting information in early manuals of secret recipes; he see the roots of modern science as being derived from these early 'how to' manuals. Study of texts relating to metaphysics, medicine, alchemy and magic. ISBN: 0691034028 / 0-691-03402-8
267. **[EATON, H. H.] Charles W. SHORT.** *A Biographical Memoir of H. Hulbert Eaton, A.M. Late Assistant Professor of Chemistry in the Medical Department of Transylvania University.* [Lexington]: [Transylvania University, 1832-3]. (210 x 140 mm). 15 pp. Self-wraps. Small ink stamp on front cover. Fine. Scarce. Z1841 \$ 150

Short sketch of a professor of chemistry in the medical department of Transylvania University during the early 1830's. Coleman 603. Pierson 402 [?].

268. **EINSTEIN, Albert** (1879-1955). "Zur Theorie der Lichtfortpflanzung in dispergierenden Medien." Offprint from: *Sitzungsberichten der Preussischen Akademie der Wissenschaften, phys.-math. Klasse, III*, 1922. Berlin: Akademie der Wissenschaften in Kommission bei ... Walter de Gruyter, 1922. 256 x 183 mm. 4to. 18-22 pp. Original printed wrappers. Fine. Beautiful copy.



§ 200

FIRST SEPARATE EDITION. This paper gives evidence that Einstein's ideas on the photon were not able to contradict classical theory. "Since, after 1917, Einstein firmly believed that light-quanta were here to stay, it is not surprising that he would look for new ways in which the existence of photons might lead to observable deviation from the classical picture. In this he did not succeed. At one point, in 1921, he thought he had found a new quantum criterion, but it soon turned out to be a false lead [as demonstrated in this paper]." Pais, 'Subtle is the Lord,' pp. 412-413.

☼ Schilpp-Shields 162; Weil 120.

S6075

269. **EINSTEIN, Albert** (1879-1955). "Neue Möglichkeit für eine einheitliche Feldtheorie von Gravitation und Elektrizität." Offprint from: *Sitzungsberichten der Preussischen Akademie der Wissenschaften, phys.-math. Klasse, XVIII*, 1928. Berlin: Akademie der Wissenschaften in Kommission bei Walter de Gruyter, 1928. 256 x 186 mm. 4to. 6 pp. Original printed wrappers. Fine.

§ 175

FIRST SEPARATE EDITION. Unification theory continued. Using the Riemannian geometry with torsion, Einstein proposed to use this formalism for his unification theory.

☼ Printing and the mind of man 416; Weil 162; Schilpp-Shields 218.

S6078

270. **EINSTEIN, Albert** (1879-1955). "Einheitliche Feldtheorie und Hamiltonsches Prinzip." Offprint from: *Sitzungsberichten der Preussischen Akademie der Wissenschaften, phys.-math. Klasse, X*, 1929. Berlin: Akademie der Wissenschaften in Kommission bei Walter de Gruyter, 1929. 257 x 184 mm. 4to. 6 pp. Printed wrappers. Fine. RARE.

§ 175

FIRST SEPARATE EDITION. Part of Einstein's final efforts on a unified field theory in which he "proposed a set of field equations, but added that 'further investigations will have to show whether [these] will give an interpretation of the physical qualities of space.'" Pais, 'Subtle is the Lord,' p. 346.

☼ Printing and the mind of man 416; Weil 166; Schilpp-Shields 227.

S6080

271. **EINSTEIN, Albert** (1879-1955). "Die Kompatibilität der Feldgleichungen in der einheitlichen Feldtheorie." Offprint from: *Sitzungsberichten der Preussischen Akademie der Wissenschaften, phys.-math. Klasse*, I, 1930. Berlin: Akademie der Wissenschaften in Kommission bei Walter de Gruyter, 1930. 257 x 184 mm. 4to. 8 pp. Original printed wrappers. Fine. RARE.

\$ 150

FIRST SEPARATE EDITION. "In 1930 [Einstein] worked on special solutions of his equations and began a search for identities which should play a role (without the benefit of a variational principle) similar to the role of the Bianchi identities in the usual theory." ☼ Pais, 'Subtle is the Lord,' p. 347. Weil 169; Schilpp-Shields 239. S6081

272. **EINSTEIN, Albert** (1879-1955). "Zum kosmologischen Problem der allgemeinen Relativitätstheorie." Offprint from: *Sitzungsberichten der Preussischen Akademie der Wissenschaften, phys.-math. Klasse*, XII, 1931. Berlin: Akademie der Wissenschaften in Kommission bei Walter de Gruyter, 1931. 258 x 185 mm. 4to. 5 pp. Original printed wrappers. Fine. RARE.

\$ 175

FIRST SEPARATE EDITION. Einstein's last paper on distant parallelism. "One more paper on identities followed in 1931. Then he gave up. In a note to Science, he remarked that this was the wrong direction.... Half a year after his last paper on distant parallelism he was back at the five dimensions." Pais, 'Subtle is the Lord,' p. 347. On the last page of the back-cover, the publisher's advertisements note that all the off-prints of Einstein's papers published by the Academy between 1914 and 1921 are marked OUT OF PRINT as of 1931.

☼ Schilpp-Shields 249; Weil 179.

S6082

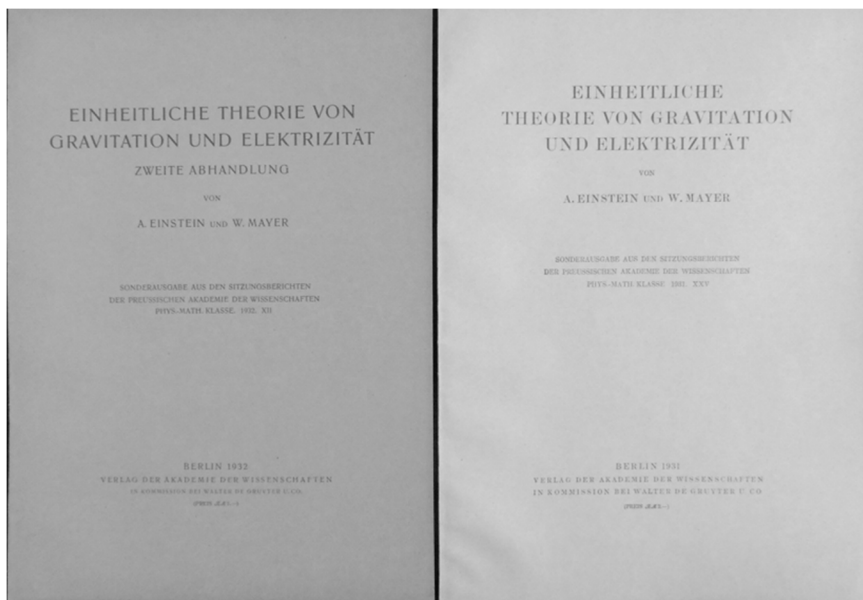
273. **EINSTEIN, Albert** (1879-1955) & **Walter MAYER** (1887-1948). "Systematische Untersuchung über kompatible Feldgleichungen, welche in einem Reimannschen Raume mit Fernparallelismus gesetzt werden Können." Offprint from: *Sitzungsberichten der Preussischen Akademie der Wissenschaften, phys.-math. Klasse*, XIII, 1931. Berlin: Akademie der Wissenschaften in Kommission bei Walter de Gruyter, 1931. 256 x 184 mm. 4to. 11 pp. Tables. Original printed wrappers. Fine. RARE.

\$ 175

FIRST SEPARATE EDITION. The collaboration between Einstein and Walter Mayer was very successful. In this, their second joint paper, the authors presented "a new unified field theory based on a four-dimensional space-time continuum with a five-dimensional tangent space attached at each point." Pais.

☼ Pais, 'Subtle is the Lord,' p. 492; Schilpp-Shields 250; Weil 180.

S6083



274. **EINSTEIN, Albert** (1879-1955) & **Walter MAYER** (1887-1948). “Einheitliche Theorie von Gravitation und Elektrizität.” with: “Einheitliche Theorie von Gravitation und Elektrizität. Zweite Abhandlung.” Offprints from: *Sitzungsberichten der Preussischen Akademie der Wissenschaften, phys.-math. Klasse*, XXV, 1931; XII, 1932. Berlin: Akademie der Wissenschaften in Kommission bei Walter de Gruyter, 1931, 1932. 257 x 184 mm. 4to. 19; 10 pp. Original printed wrappers. Fine. RARE.

§ 575

FIRST SEPARATE EDITION. Weil notes these two papers as “principal works.” “In 1931 Einstein and Walter Mayer reformulated Kaluza’s five-dimensional [unified field] theory retaining a four-dimensional space-time.” Haskell Norman Library. In the second paper on the same subject, the authors “deal with semi-vectors and spinors.” Pais. The second paper was Einstein’s last paper in the *Sitzungsberichten der Preussischen Akademie der Wissenschaften*, and the last joint paper of Einstein and Mayer to be published in German. Walter Mayer joined Einstein in his American exile beginning in 1933.

☼ I: DSB, IV, p. 331; Haskell Norman Library 701; Weil 182; Schilpp-Shields 251. II: Pais, ‘Subtle is the Lord,’ p. 492; Haskell Norman Library 701; Schilpp-Shields 261; Weil 185. S6084

275. **EINSTEIN, Albert** (1879-1955). “Einstein’s proposal of the photon concept - a translation of the *Annalen der Physik* paper of 1905. A. B. Arons and M. B. Peppard” In: *American Journal of Physics*, Vol. XXXIII, No. 5, May 1965. New York: Published for the American Association of Physics Teachers by the American Institute of Physics, 1965. 268 x 204 mm. 4to. Pages 367-374. [Entire volume: [ii], 1126 pp.] Green buckram, gilt spine. Blind-stamp of the Carnegie Institution of Washington, Mount Wilson Observatory. Fine.

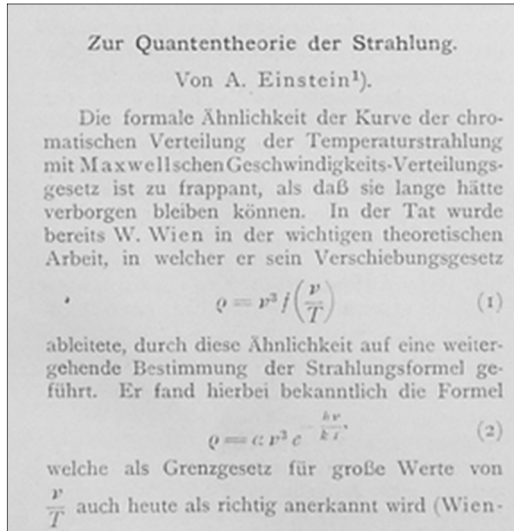
§ 400

FIRST ENGLISH-LANGUAGE EDITION of Einstein’s groundbreaking paper in which he demonstrated from thermodynamic and statistical considerations that

electromagnetic radiation might be conceived as consisting of finite numbers of discrete corpuscles of energy. This paper is an early application of the quantum theory of light, and a giant step in the development of the quantum theory beyond Planck's theory of the radiation formula. In this paper Einstein developed the concept of light quanta, or "photons" as they are designated in modern terminology. For this paper, and for his "theory of light production and light absorption," Einstein received the Nobel Prize in 1921. Einstein predicted the linear relation between the stopping potential of photoelectrons and the frequency of the incident light.

☼ See: Haskell Norman Library 689; Schilpp-Shields 7; Weil 6.

S6085



The Discovery of Stimulated Emission of Photons

276. **EINSTEIN, Albert** (1879-1955). "Zur Quantentheorie der Strahlung" in: *Physikalische Zeitschrift*, XVIII, pp. 121-128. Leipzig: S. Hirzel, 1917. Large 8vo. xi, 604 pp. Contemporary half black cloth over marbled boards, gilt-stamped spine title, modern black morocco slipcase with gilt rules and title. Fine.

\$ 1000

FIRST EDITION. This uncommon but classic paper by Einstein predicts on theoretical grounds the existence of the phenomenon of stimulated emission of radiation. Four decades later MASER and LASER devices are operated to prove him right. "In this paper he derived Planck's original quantum law from a different starting point, he suggested that as well as spontaneous emission and absorption, there could also take place the process of stimulated emission. In 1917 this seemed mainly of theoretical interest; forty years later it was utilized to provide the maser and laser of modern technology." [Weil].

This paper is one of the foundations of Modern Quantum Theory. In 1917, at the height of his work on relativity, Einstein published an article in *Physikalische Zeitschrift* that proposed the possibility of stimulated emission, the physical process that makes possible the maser and the laser. This article showed that the statistics of absorption

and emission of light would only be consistent with Planck's distribution law if the emission of light into a mode with n photons would be enhanced statistically compared to the emission of light into an empty mode. This paper was enormously influential in the later development of quantum mechanics, because it was the first paper to show that the statistics of atomic transitions had simple laws. Einstein discovered Louis de Broglie's work, and supported his ideas, which were received skeptically at first. In another major paper from this era, Einstein gave a wave equation for de Broglie waves, which Einstein suggested was the Hamilton–Jacobi equation of mechanics. This paper would inspire Schrödinger's work of 1926. Einstein interpreted Planck's quanta as photons, particles of light, and proposed that the energy of a photon is proportional to its frequency, a mysterious wave-particle duality. Since energy and momentum are related in the same way as frequency and wavenumber in relativity, it followed that the momentum of a photon is proportional to its wavenumber. [Wikipedia].

☼ Weil 91.

277. **[EINSTEIN, Albert] Kip S. THORNE.** *Black Holes and Time Warps: Einstein's Outrageous Legacy.* Foreword by Stephen Hawking. New York: W. W. Norton, (1994). Series: *Commonwealth Fund Book Program.* 8vo. 619 pp. Bibliography, index. Quarter silver-stamped navy blue cloth over matching paper-backed boards, dust-jacket; spine ends bumped, rear jacket corner torn. SIGNED AND INSCRIBED from author to Carson Todd in ink at title-page. Very good. ISBN: 0393035050

\$ 125

Thorne's exploration of black holes, wormholes, singularities, gravitational waves, and the implications they have on real and theoretical time travel.

"Kip Thorne speculated that sporadic, transient, and microscopic wormholes could briefly be enlarged and may go back in time, and receive and transmit information" (Sagan, p. 430). Thorne has received numerous awards and honors, including the Albert Einstein Medal in 2009 from the Albert Einstein Society, Bern, Switzerland, the California Science Center's California Scientist of the Year Award (2003), and the Robinson Prize in Cosmology from the University of Newcastle, England.

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

☼ Sagan, Paul. *Ball Lightning: Theory of Everything, Defying Gravity, Flatwoods.* Bloomington, IN: Universe, 2004.

278. **ELLIS, J. B. & B. M. EVERHART.** *The North American Pyrenomycetes; A Contribution To Mycologic Botany.* With original illustrations by F. W. Anderson Newfield, NJ: Ellis & Everhart, 1892. Thick 8vo. iii, 793 pp. 41 plates, errata leaf laid in. Original brown cloth, black-stamped cover and spine titles; rear inner hinge tape repair, spine ends frayed. Bookplate and ex-library ink stamps from Throop College of Technology & Cal Tech. Very good.

\$ 450

"The Perisporiaceae include about three hundred species, many of which are but little known, while none have been cytologically investigated. They develop as epiphytes on the leaves or young parts of plants, or occur on decaying plant substances. They usually possess a dark-coloured filamentous mycelium ..." [Gwynne-Vaughan]. "In the present state of mycological knowledge, the classification of North American Pyrenomycetes is attended with many difficulties;

chief which is the fact that many of the published diagnoses are too imperfect to enable one to recognize the species, of which many of the types are either lost or practically inaccessible. Our knowledge of these species is derived from the brief descriptions in Grevillea and the supplementary notes by Dr. M.C. Cooke, who has also examined and determined, by comparison with the original types, many of the species included in the present work.” – preface.

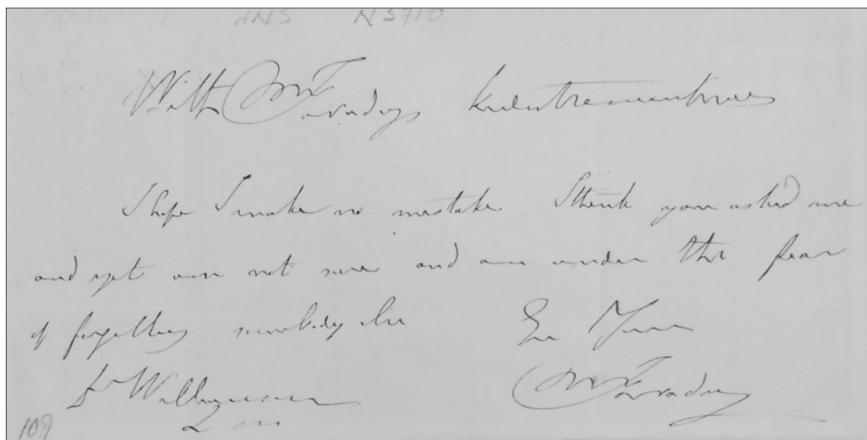
“The stems of the *Corylus* are affected with one of the Pyrenomycetes. *Cryptospora anomala*, Pk. The fungus is described in “North American Pyrenomycetes,” by Ellis and Everhart, p. 531. It attacks *Corylus Americana*, but appears to be worst on the European varieties...” [written by Albert F. Woods]. See: Andrew S. Fuller, *The Nut Culturist: A Treatise on Propagation, Planting and ...*, 1896. See: Helen Gwynne-Vaughan, *Fungi: Ascomycetes, Ustilaginales, Uredinales*, 2010, p. 90.

279. **Encyclopédie de la Pléiade; Bertrand GILLE** (ed.). *Histoire des Techniques; Technique et Civilisations, Technique et Sciences*. [Paris]: Bertrand Gille, (1978). Series: *Encyclopédie de la Pléiade*, 41. Sm. 8vo. xiv, [4], 1652 pp. Figures, indexes. Maroon leatherette, printed dust-jacket with glassine wrapper, publisher's slip-case. Fine. \$ 50
Contributing are: André Fel, Bertrand Gille [“Progrès Technique et Société”; “Technique et Droit”], Jean Parent, Bernard Quemada [“Technique et Lagrange; La formation des vocabulaires Français des Techniques”], François Russo. Broadly sweeping volume starting with primitive man, the Greeks, Romans, China, mining, nautical, gears, the industrial revolution, etc.
280. **EPICETUS**. *Discourses and Enchiridion. Based on the Translation of Thomas Wentworth Higginson. With an introduction by Irwin Edman*. New York: Walter J. Black, (1944). Classics Club. 8vo. xv, 352 pp. Cloth. Fine. \$ 6
281. [**ERIUGENA, Johannes Scotus** (c. 815-877)] **Erika von ERHARDT-SIEBOLD & Rudolf von ERHARDT**. *The Astronomy of Johannes Scotus Erigena*. Baltimore: Published for Vassar College by the Williams & Wilkins Company, 1940. 8vo. 69 pp. Fig. Navy cloth, gilt-stamped cover and spine titles; some fading to covers. Very good. Inscription: “With the compliments of the authors, Feb. 15, 1943.” A well documented, scholarly account. Z1217 \$ 65
282. [**ERIUGENA, Johannes Scotus** (c. 815-877)] **Erika von ERHARDT-SIEBOLD & Rudolf von ERHARDT**. *Cosmology in the “Annotationes in Marcianum”: More Light on Erigena's Astronomy*. Baltimore: Williams & Wilkins Company, 1940. 8vo. 45 pp. Navy cloth, gilt-stamped cover and spine titles. Presentation inscription: “With the compliments of the authors, Feb. 15, 1943.” Very good. Z1218 \$ 50
283. [**ESPY, James Pollard** (1785-1860)] **L.M MOREHEAD**. *A Few Incidents in the Life of Professor James P. Espy, by His Niece...* Cincinnati: Robert Clarke, 1888. Small 8vo. 22 pp. Burgundy cloth, gilt-stamped cover title; inner hinges separated, disbound, front endpapers detached. Former library copy with the usual markings and defects. Inscription: “With Compliments of The Author.” First hand anecdotal account of the noted U.S. meteorologist. This is the original issue and not the reprint offered commonly. AS IS. Z1219 \$ 30
284. [**EUCLID**] **H.L.L. BUSSARD**. *The Translation of the Elements of Euclid from the Arabic into Latin by Herman of Carinthia (?)*. Leiden: E.J. Brill, 1968. Reprinted from: *Janus*, LIV, 1-2, 1967. 8vo. 142 pp. 189 figs., index; a few minor pencil marginalia by

Lindberg. Printed wrappers. Ink ownership signature of David C. Lindberg. Very good +. RARE. \$ 45

285. [EUCLID] **Charles THOMAS-STANFORD**. *Early Editions of Euclid's Elements*. San Francisco: Alan Wofsy Fine Arts, 1977. Limited Edition reprint of 450 copies. 4to. ix, 67, plates [13] pp. Two color title (printed in red and black), small title port. of Euclid, 13 plates (numbered 1a, 1b 2-12), indexes. Gray cloth, small gilt-stamped cover illustration and spine title. Fine. Originally published in 1926 by the Bibliography Society in London as Volume No. XX in the Illustrated Monograph series. Handsomely reprinted. This is quite a work of scholarship even by the standards of the 21st century. The 13 text-plates are additions to the original and new to this edition. ISBN: 091534629X Z1220 \$ 50
286. [EWING, John (1732-1802)] **Lucy Elizabeth Lee EWING**. *Dr. John Ewing and Some of His Noted Connections*. Philadelphia: (Press of Allen, Lane & Scott), 1924. 8vo. [i], 135 pp. Frontis. port. of John Ewing, plates; foxing. Dark blue cloth, gilt-stamped cover and spine titles. A few corrections made in ink, presumably by the author (neatly done). Very good. Z1223 \$ 12.50
287. **FABRICIUS of Aquapendente, Hieronymus**. *The Embryological Treatises of Hieronymus Fabricius of Aquapendente; The formation of the egg and of the chick [De Formatione Ovi et Pulli]; The Formed Fetus [De Formato Foetu]*. A facsimile edition, with an introduction, a translation, and a commentary by Howard B. Adelman. Ithaca: Cornell University Press, (1967). 2 volumes. 4to. xxiii, 376; xiii, 381-883 pp. Illus., (71 page) index. Maroon cloth, glassine wrappers (as issued), maroon cloth slip-case. Near fine. \$ 50

A splendid facsimile edition and translation, of two works of Fabricius. The introduction includes a history of embryology before Fabricius. "Fabricius wrote at great length on embryology, inventing many theories, some of which were false. His illustrations marked a great advance on previous work. Fabricius recorded for the first time the dissection of several embryos" – Garrison-Morton 465 and 466 (citing the first Latin editions of 1621 and 1600).

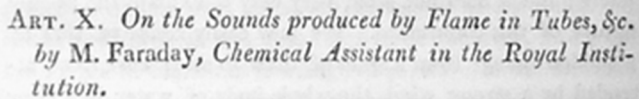


Faraday Expresses His Concern for Loss of Memory

288. **FARADAY, Michael** (1791-1867). AUTOGRAPH NOTE SIGNED. London, ca. 1850-65. 6.25" x 3.25". 1 small page. Fine. The letter reads: "With M. Faraday's kindest remembrances, / I hope I make no mistake[.] I think you asked me / and yet am not sure and am under the fear / of forgetting somebody else. Ever Yours | M. Faraday ... [To] Dr Williamson | &c &c" [London], ca.1850-1860/5].

\$ 750

Michael Faraday, English Chemist and Physicist, known as one of the greatest scientific minds of the 19th century, clearly indicating a concern for memory loss. Frank James has identified the correspondent of the letter as being written in all probability to "Alexander William Williamson (1824-1904) who was Professor of Chemistry at University College London from 1849 having studied with Liebig at Giessen where he obtained his PhD. On this basis I would date the letter to sometime in the 1850s, or possibly the early 1860s..." See: Faraday, Michael. *The Correspondence of Michael Faraday...* Edited by Frank A.J.L. James. Institution of Electrical Engineers, 1991-1999. Frank James is Professor of the History of Science at the Royal Institution. He is editor of the correspondence Michael Faraday (of which four out of six volumes have so far been published); Faraday, Michael. *The Selected Correspondence of Michael Faraday*. Edited L. Pearce Williams (and others). Cambridge University Press, 1971.



ART. X. *On the Sounds produced by Flame in Tubes, &c.*
by M. Faraday, Chemical Assistant in the Royal Institution.

289. **FARADAY, Michael** (1791-1867). "On the sounds produced by flame in tubes, &c." In: *The Journal of Science and the Arts*, Vol. V, 1818. London: John Murray, 1818. 8vo. Pages 274-280. [Entire volume: [x], xxiv, 406 pp.] Contemporary quarter calf, calf corners, marbled boards, red leather spine label, gilt spine; spine ends chipped, spine cracked. Blind-stamp of the Carnegie Institution of Washington, Solar Observatory, small ms. paper spine label. Very good.

\$ 250

FIRST EDITION. "In 1818 [Faraday] experimented upon 'sounding flames.' Professor Auguste De la Rive had investigated those sounding flames, and had applied to them an explanation which completely accounted for a class of sounds discovered by himself, but did not account for those known to his predecessors. By a few simple and conclusive experiments, Faraday proved the explanation insufficient. It is an epoch in the life of a young man when he finds himself correcting a person of eminence, and in Faraday's case, where its effect was to develop a modest self-trust, such an event could not fail to act profitably." Tyndall, Faraday as a discoverer, pp. 9-10. Poggendorf, I, col. 720.

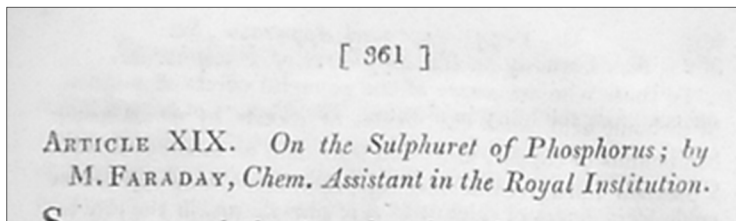
S6294

290. **FARADAY, Michael**. *Chemical Manipulation; Being Instructions to Students in Chemistry on the Methods of Performing Experiments of Demonstration or Research, with Accuracy and Success*. London: John Murray, 1842. 8vo. xiii, 664 (ads.) 16 pp. Figs., index. Handsomely rebacked preserving original green cloth & spine label; early newspaper articles pasted neatly in rear. Early ownership inscription of Charles Buttons. Fine.

\$ 285

Third edition, revised (first issued in 1827; second ed. in 1830). This is the only separate book written by Faraday; all his other books bearing his name were either collections of previously published papers or edited reports of his lectures. The

purpose of this work was to make the general methods of chemistry, as distinguished from its results, the subject of special study and popular exposition. *DSB IV*; *Michael Faraday: A List of His Lectures and Published Writings*, by Alan E. Jeffreys, p. 18; Lowndes p. 778; Pogendorff p. 719. S7209



291. **FARADAY, Michael.** "On the Solution of Silver in Ammonia." With: "On the Sulphuret of Phosphorus." In: *The Journal of Science and the Arts*, vol. IV. London: John Murray, 1818. 8vo. (Articles) 268-273; 361-362 pp. (Whole vol.) 416 pp. Figs., numerous plates including folding illus., diagrams, a hand colored botanical drawing, & a folding table of crystals, index; light occasional foxing affecting plates. Early half calf, marbled boards; spine ends worn, rear spine joint split, extremities worn. Very good.

\$ 350

First edition. Two early chemistry papers by Faraday. One of the great figures in the history of science, Faraday drove forward our understanding of chemistry, electricity and magnetism. His inventions and discoveries in all areas of science laid the foundation for much of the everyday technology we use today. These brief chemical experiments came early in his career and whilst seemingly minor in comparison to his more famous papers, they are fledgling works in his development as chemist and scientist. See: Tyndall p. 10; *DSB IV*. S7210

292. **FARADAY, Michael.** "Some Experimental Observations on the Passage of Gases Through Tubes." In: *The Journal of Science and the Arts*, vol. VII. London: John Murray, 1819. 8vo. (Article) 106-110 pp. (Whole vol.) iii, 418 pp. Figs., numerous plates including folding illus., diagrams, & a hand colored drawing, index; light occasional foxing affecting plates. Early half calf, marbled boards; spine ends rubbed, spine joints rubbed. Very good.

\$ 500

First edition. Early & significant study of gases under pressure. One of the great figures in the history of science, Faraday drove forward our understanding of chemistry, electricity and magnetism. His inventions and discoveries in all areas of science laid the foundation for much of the everyday technology we use today. This article stands alone in being crucial in the development of theories relating to force and the reactions of gases to high pressure and high temperature. This experiment confirmed that "at ordinary pressures, the expected correlation between specific gravity and rate of gas flow was found. When the conditions were varied, however, the simplicity vanished." (Pearce Williams, p. 124). Here was the groundwork for Faraday's later investigations into matter & forces and must be seen as fundamental in the process of reaching his most celebrated discoveries. At this time Faraday was under the tutelage of Sir Humphrey Davy, the noted chemist, who is also featured in

this volume with the historically and scientifically important explanation of his attempt to unravel (with chlorine) the recently discovered scrolls at Herculaneum. See *DSB* IV; Pearce Williams; *Michael Faraday, Physics and Faith*, Russell; *Faraday as a Discoverer*, Tyndall; *A Life of Discovery*, Hamilton. \$2711

293. **FARADAY, Michael (1791-1867)**. *The Bakerian Lecture. - Experimental relations of gold (and other metals) to light*. In: Philosophical Transactions of the Royal Society of London. For the year MDCCCLVII, Vol. 147, Part I. London: Richard Taylor and William Francis, 1857. 302 x 231 mm. 4to. Pages 145-181. [Entire volume: iv, [vi], (1)-312 pp. 1 fig.; title page mounted on heavier leaf. Original printed wrappers; spine and extremities chipped, top cover off, stitching sprung. AS IS. \$ 150
- FIRST EDITION. This is Michael Faraday's last contribution to the Royal Society which describes optical investigations on very thin films of gold and on ruby-colored suspensions of ultra-microscopic particles of gold in various liquids. Faraday's observations are a very early study in colloid chemistry, but its importance was not realized for another forty years. Pogendorf, I, col. 720; Williams, Michael Faraday, pp. 472-473. \$4164
294. **[FARADAY, Michael (1791-1867)] John Hall GLADSTONE (1827-1902)**. *Michael Faraday*. New York: Harper & Brothers, [ca. 1872]. 8vo. 223 pp. Woodcut frontis. port. of Faraday, index. Original reddish-brown blind stamped decorative cloth, gilt-stamped spine title. This book was issued without a date, but there was an 1872 London: Macmillan edition. This is an early American issue – and in this case a beautiful copy. Fine. Z1225 \$ 50
295. **[FARADAY] RADAU, R.** Autograph Document "Michael Faraday." [no place]: Revere des Deux Mondes, October, 1867. 20 x 33 cm. 4 pp. Some small marginal tears, creased. Very good. \$ 30
- An anonymous hand-written translation into English of Faraday's obituary from "Revere des Deux Mondes" about Michael Faraday (1791-1867), as written by R. Radau (who wrote several pieces on Faraday). Faraday died on August 25, 1867 and thus this is from a later date. \$9031
296. **[FARNSWORTH, Philo Taylor (1906-1971)] George EVERSON (1885-1982)**. *The Story of Television: The Life of Philo T. Farnsworth*. New York: W.W. Norton & Company, (1949). FIRST EDITION. 8vo. 266 pp. Plates. Red paper boards, gilt-stamped spine title, dust-jacket; jacket worn. Gift inscription on f.f.e.p. Scarce in original jacket. Very good. Z1229 \$ 95
297. **[FARRAR, John (1779-1853)] John Gorham PALFREY (1796-1881)**. "Notice of Professor Farrar." Offprint from: *Christian Examiner* for July, 1853. Boston: Crosby, Nichols, 1853. (215 x 140 mm). 18 pp. Disbound. Signed presentation inscription from the author. Very good. Z1844 \$ 25
298. **[FAUTH, Philipp (1867-1941)] "Philipp Fauth."** In: *Forschungen und Fortschritte*, 17. Jahrgang, Nr. 9, 20. März 1941, pp. 103-104. Berlin: Triasdruck, 1941. 4to. (89)-104 pp. Self-wraps. Very good. Z1846 \$ 20



Philipp Johann Heinrich Fauth

299. **FAUTH, Philipp** (1867-1941). *Unser Mond-wie Man ihn lesen Sollte--neues Handbuch für Forscher nach Erfahrungen aus 52 Jahren Beobachtung. Publikation VII seiner Sternwarte*. Breslau: Dr. Hermann Eschenhagen, 1936. 8vo. 592 pp. Illus., index, 16 plates; number rubber-stamped on title (bottom margin). Original silver-stamped quarter navy blue cloth mounted on modern black half morocco over navy cloth with five raised bands, silver spine stamping to match original cover design. Fine.

\$ 850

FIRST EDITION. Thomas A. Dobbins calls this [English: *Our Moon*] Fauth's most valuable work. [See Hockey p. 361.]. Dobbins quotes Joseph Ashbrook, this is "the best of all observing guidebooks to the Moon's surface" but mostly unknown to English readers. Whitaker describes the work as aesthetically quite pleasing. It records Fauth's observations from 52 years of study. "It contains topographical descriptions of every major lunar formation, complete with summaries of their observational histories. It was meant to serve as the companion text to the still unfinished 1:1,000,000 map. Instead, it appeared in conjunction with a map of one-fourth that scale in 16 sections ... which was intended to serve as a guide to nomenclature."

Fauth, German selenographer, born in Bad Dürkheim, he was a musical prodigy and began work as a schoolteacher. As an amateur astronomer, he established a private observatory in Landstuhl equipped with a 162-mm. aperture refractor telescope. He studied the formations on the Moon with great intensity and meticulousness; his work on lunar topography was considered the best of all his contemporaries. His book, *The Moon*, was translated into English and published in 1909, represented the lunar landscape in twenty-four sectors. Whitaker calls Fauth “an excellent cartographer.” However, Fauth and his colleague Hanns Hörbiger believed that the Moon’s mountains and crater rims were covered with ice. Hörbiger’s visions came to him in dreams – “some form mystical illumination.” Because of this ill-advised path of research Fauth lost his reputation and was considered by some to be an “idiot savant.” He returned to his love of the Moon and compiled an extensive atlas of the moon, the *Grosse Mondkarte*, between 1884 and 1940 (“which was not completely published until 1964 [by his son Hermann], and prized today as a rare book”). The atlas surpassed in detail all previous atlases and brought him accolades for the achievement.

☼ Hockey, Thomas. *The Biographical Encyclopedia of Astronomers*. (2009). Vol. 2, pp. 360-361. Siew Meng Chong, Albert Chee Hoon Lim, Poon Seng Ang, Photographic Atlas of the Moon, (2002), p. 128. William Sheehan, Thomas A. Dobbins, *Epic moon: a history of lunar exploration in the age of the telescope*, 2001, p. 293; Ewen A. Whitaker, *Mapping and Naming the Moon: A History of Lunar Cartography and ...* (2003), p. 168. Reviewed by “Unser Mond, by Philipp Fauth,” *Journal of the British Astronomical Association*, 47 (1936), 34-37.

300. **FEINGOLD, Mordechai**. *The Mathematicians’ Apprenticeship; Science, universities and society in England, 1560-1640*. Cambridge: Cambridge University Press, (1984). 8vo. viii, 248 pp. Index; ink underlining throughout by Lindberg. Cloth, dust-jacket. Ink ownership signature of David C. Lindberg. Very good (noting ink underlining). ISBN: 0521251338 / 0-521-25133-8 \$ 25
301. **[FERMAT, Pierre de] Michael Sean MAHONEY**. *The Mathematical Career of Pierre de Fermat (1601-1665)*. Princeton: Princeton University Press, (1973). 8vo. xviii, 419 pp. Index. Cloth, dust-jacket; jacket extremities lightly worn. SIGNED AND INSCRIBED from author to David C. Lindberg: “To Dave best wishes Mike”. Very good. ISBN: 0691081190 / 0-691-08119-0 \$ 75
302. **FERRANTI, Sebastian Ziani de (1864-1930)] Frank BAILEY**. *The Life and Work of S. Z. de Ferranti, D.Sc., F.R.S., 1864-1930. Anniversary Address... The Electrical Power Engineers’ Association (Technical Groups)*, Manchester, January 14th, 1931. Lancashire: Ferranti Ltd., [1931]. 8vo. 40 pp. Gravure frontis. port. of Ferranti with tissue guard, illustrations. Blue paper wrappers, mounted printed paper cover label. Previous owner’s signature inked on f.f.e.p. Very good. Scarce. Z1238 \$ 25
303. **FEUER, Lewis S**. *The Scientific Intellectual; The psychological & sociological origins of modern science*. New York & London: Basic Books, (1963). 8vo. xii, 441 pp. Index. Original cloth, dust-jacket; jacket worn. Ownership ink signatures, including one of David C. Lindberg. Good +. \$ 8