

Jonathan A. Hill, Bookseller, Inc.

325 West End Avenue, Apt. 10B
New York City, New York, 10023-8145
Tel: 646 827-0724 Fax: 212 496-9182
E-mail: JAHillBooks@aol.com

Catalogue 198

Proofs

*Science, Medicine, Natural History,
& Bibliography*

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Selective Subject Index

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*The "Masterpiece" of "The First Woman in the Western World Who
Can Accurately be Called a Mathematician"*

1. **AGNESI, Maria Gaetana.** *Instituzioni Analitiche*. Engraved vignettes on title, 59 folding engraved plates & 2 folding printed tables. 8 p.l., 428, [4] pp., 1 leaf of errata; 1 p.l., 431-1020 pp., 1 leaf of errata. Two vols. Large thick 4to, cont. vellum over boards (minor & occasional dampstaining & foxing), spines lettered in gilt. Milan: nella Regia-Ducal Corte, 1748. \$9500.00

First edition of the most important book by "the first woman in the Western world who can accurately be called a mathematician...A decade of concentrated thought bore fruit in 1748 with the publication of her *Instituzioni analitiche*...This book won immediate acclaim in academic circles all over Europe and brought recognition as a mathematician to Agnesi. The *Instituzioni analitiche* consisted of two huge quarto volumes containing more than a thousand pages. Its author's objective was to give a complete, integrated, comprehensible treatment of

algebra and analysis, with emphasis on concepts that were new (or relatively so) in the mid-eighteenth century...she wrote in Italian rather than in Latin and covered the range from elementary algebra to the classical theory of equations, to coordinate geometry, and then on to differential calculus, integral calculus, infinite series (to the extent that these were known in her day), and finally to the solution of elementary differential equations. She treated finite processes in the first volume and infinitesimal analysis in the second...There were many genuinely new things in her masterpiece."—*D.S.B.*, I, pp. 75-76.

A very good set.

2. AGRICOLA, Georg. *Libri Quinque de Mensuris & Ponderibus: in quibus pleraque à Budaeo & Portio parum animadversa diligenter excutiuntur.* Woodcut printer's device on title (repeated on verso of final leaf, otherwise blank). 261, [9] pp. (lacking final leaf, a blank). Small 8vo, cont. limp vellum (binding with one or two minor defects), ties gone. Paris: C. Wechel, 1533. \$3500.00

Second edition and a very fine copy of one of Agricola's most important books which became a standard work on ancient weights and measures. It is "a valuable book of reference on the history of ancient measures . . . The book is also valuable to the student of Roman and Greek numerals, and of the various symbols of measures. Such works explain the origin of certain systems of measures employed before the metric system was developed, and of such symbols as are still used by apothecaries."—Smith, *Rara Arithmetica*, pp. 171-73—(who, like several other bibliographers, including the Hoovers, mistakenly describes this as the first edition).

Besides these subjects, Agricola treats the value of metals of all kinds and of money both in ancient and modern times. The first edition appeared in the same year at Basel.

A fine copy bound before a very slightly defective copy of Robert Ceneau's *De Vera Mensurarum ponderumque ratione opus de integro instauratum* . . . (1547); it lacks half of the folding table. Early ownership inscriptions of "Ex Biblioth. M.S. Cigirami" and "C. Lancelot" on the first title.

• Darmstaedter, *G. Agricola*, pp. 71-74—"especially important for the historian of medicine."

3. (AUCTION CATALOGUE: ABBEY). *Catalogue of Valuable Printed Books and Fine Bindings [& Illuminated MSS.] from the Celebrated Collection of Major J.R. Abbey.* Numerous plates & illus. (many in color). 10 vols. (of 11). 4to & small folio, orig. printed boards & wrappers. London:

Sotheby's, 1965-89. \$750.00

A nearly complete set (lacking only the 10th sale) of one of the finest sales of bindings, MSS., press books, bibliography, and printed books of the century. The books are all carefully described and the catalogues serve as a useful reference work. Indexes are provided. All the catalogues are of the illustrated issue.

Fine. With printed price lists.

Printed on Fine Paper

4. (AUCTION CATALOGUE: CAILLARD, A.B.). *Catalogue des Livres rares et précieux de la Bibliothèque de feu M. Ant. Bern. Caillard...* xxiii, [1], 423, [4] pp. 8vo, slightly later half-calf & marbled boards (head of upper joint with a tiny split, corners very slightly worn), spine gilt, green morocco lettering piece on spine. Paris: De Bure père et fils, 1808.

\$2950.00

The first issue of the auction catalogue of Caillard's library; our copy is printed on fine paper and priced throughout in a contemporary hand. The present catalogue (2650 lots and limited to 1200 copies) was published for the auction which was eventually held in 1810 (the second issue has 1810 on the title). This was an important library containing notable incunabula, classical texts, scientific and natural history works, and voyages in the finest possible condition and often printed on large paper. Also included are fine bindings and MSS.

Antoine Bernard Caillard (1737-1807), had issued a privately printed catalogue of his library, limited to 25 copies only, in 1805. Caillard was a French diplomat and man of letters.

A fine, large (many outer edges uncut), and attractive copy. With the rare four-page schedule of sale at end.

• Brunet, I, 1643. Grolier Club, *Printed Catalogues of French Book Auctions...* 1643-1830, 497. *N.B.G.*, VIII, pp. 108-09—"Il avait formé à grands frais une bibliothèque magnifique." Peignot, p. 87—"On y trouve quelques notes bibliographiques plus ou moins exactes. Destiné pour une vente, c'est un fort bon catalogue."

5. (AUCTION CATALOGUE: DURIEZ, L.M.J.). *Catalogue des Livres imprimés et manuscrits, composant la Bibliothèque de feu M. L.-M.-J. Duriez (de Lille), Membre de La Société des Bibliophiles Français, dont la Vente se fera le Mardi 22 Janvier 1828, et Jours suivans...* x, 530 pp. 8vo, cont. diced calf-backed marbled boards (minor foxing & staining), flat spine gilt, uncut. Paris: J.S. Merlin, 1827. \$1950.00

A priced copy of the scarce catalogue of the library of Duriez (d. 1825), one of the great collectors of 19th-century northern France. 5245 lots, including rich

holdings of early manuscripts and autographs, fine bindings, and a first-class bibliography collection. The sale made the enormous sum of 135,000 francs.

Very good copy. Bookplates of Anselm vanden Bogaerde, Rene Giard, and Debievre.

✦ Gustave Brunet, *Dictionnaire de Bibliologie Catholique*, col. 453—"Catalogue fort important, où abondent les livres précieux." Grolier Club, *Printed Catalogues of French Book Auctions . . . 1643-1830*, 597.

*The Most Important Book Collection of the 18th Century;
A Nice Set in Matching Bindings*

6. (AUCTION CATALOGUE: LA VALLIÈRE). *Catalogue des Livres de la Bibliotheque de feu M. le Duc de la Valliere*... Par Guillaume de Bure, fils aîné. Engraved frontis. port., one folding engraved plate, & four folding facsimiles. Three vols. 8vo, cont. calf (heads of spines a little chipped), green & red lettering pieces on spines. Paris: De Bure, 1783.

[with]:

(—). *Catalogue des Livres de la Bibliotheque de feu M. le Duc de la Valliere. Seconde Partie*. Disposée par Jean-Luc Nyon l'Ainé. Six vols. 8vo, binding as above. Paris: Nyon l'aîné, & Fils, 1788. \$6500.00

The celebrated catalogues of the most important book collection of the 18th century. La Vallière, born rich and through several inheritances became even richer, began buying in a serious way at the sale of the Comte d'Hoym in 1738. For forty years more, he acquired MSS., books, and entire collections on an enormous scale, buying at every major sale in France (and even in London at the Askew sale in 1775).

I. The first catalogue, prepared by De Bure and Van Praet, contains the MSS., noteworthy incunabula, and books printed on vellum or large paper. "The manuscripts constitute an amazing collection of early French poetry and romances."-Taylor, *Book Catalogues*, p. 248. This set has bound with it the *Supplément* to the first part and the *Prix des Livres*. These are very rare and are usually found only in large paper sets. This first catalogue, consisting of 5668 lots, made the enormous sum of 464,677 liv. 8 s.

II. The catalogue, here as usual in the second issue with the title-pages dated 1788 rather than 1784, of the second portion of the library of La Vallière; it is much rarer than the 1783 catalogue of the first portion of his library. This second catalogue, containing the so-called "livres ordinaires," was sold *en bloc* to the Marquis de Paulmy, from whom it passed into the Arsenal Library in 1797. There are nearly 27,000 lots in this catalogue which contains mostly French and Italian literature and history. "On y trouve beaucoup de livres rares et curieux qui

manquent dans les autres grandes bibliothèques de Paris.”–Brunet, II, 554.

Very good set and rare in matching bindings.

• Gustave Brunet, *Dictionnaire de Bibliologie Catholique*, col. 480. Peignot, pp. 128-29. Taylor, *Book Catalogues*, pp. 248-49.

7. (AUCTION CATALOGUE: MARTIN, H.B.). *The Library of H. Bradley Martin*. Illus. & facsimiles (many in color). Nine vols. Large 4to, orig. cloth. New York: Sotheby's, 1989-90. \$675.00

A complete set of this important sale. Fine.

8. (AUCTION CATALOGUE: PATERSON, Samuel, Auctioneer). *Bibliotheca Universalis Selecta. A Catalogue of Books, Ancient and Modern, in various Languages and Faculties, and upon almost every Branch of Science and Polite Literature; including an extensive Collection of Classical, Critical and Philological Learning; Collected, for the most Part, in Germany and the Netherlands: Methodically Digested, With a View to render it useful to Students, Collectors and Librarians: to which is Added, An Index of Authors, Interpreters and Editors.* Which will be sold by Auction, by Sam. Paterson, at his Great Room, in King-Street, Covent-Garden, London, on Monday, May 8, 1786, and the Thirty-Five following Days... xii, 476 pp. 8vo, attractive antique half-calf & speckled boards (first three leaves somewhat foxed), spine gilt, red & green leather lettering pieces on spine. London: 1786. \$3500.00

Samuel Paterson (1728-1802), was one of London's most important auctioneers of the second half of the 18th century; an innovator, he was the earliest auctioneer to sell books singly in lots. He produced catalogues for a series of notable sales, including the libraries of Sylvanus Morgan (1759), Robert Nelson (1760), James Parsons (1769), James West (1773), William Fletewode (1774), E. Rowe Mores (1779), Topham Beauclerk (1781), George Costard (1782), Thomas Crofts (1783), Maffeo Pinelli (1789), and John Strange (1801).

He also was one of the first English dealers to purchase large quantities of books on the Continent and bring them back to London for auction under his own name. The present catalogue is the most important example of his importing activities; it describes 8001 items.

“His series of catalogues established him as a pioneer in the book auction trade. Each was arranged in a single alphabet by author and not broken down by book format, as was the usual custom. They were classified catalogues, the arrangement being set out at the beginning as an *ordo venditionis* ('order of sale'). Normally Paterson would begin with books on the history of language, and

proceed through bibliography (an early use of the word, with its modern meaning, in an English context) and the history of libraries, theology, classical authors, modern languages, philosophy, science and medicine, history, geography and travel, and end with local topography. He would follow this with a *capita generalia*, which gave more detail for each class. The *Bibliotheca universalis selecta* also contained an index of authors and editors, possibly the first English auction catalogue to contain such a feature."—*O.D.N.B.*

The catalogue contains a fine and large section of bibliography and book catalogues.

Very nice copy.

♣ Pollard & Ehrman, p. 245

"Le Philosophe Inconnu"

9. (AUCTION CATALOGUE: SAINT-MARTIN, Louis Claude de). *Catalogue des Livres rares et précieux du Cabinet de feu M. de Saint-Martin. Dont la vente se sera le Lundi 2 juin 1806, et jours suivans.* 4 p.l., 172 pp. 8vo, attractive modern marbled boards, morocco lettering piece on spine. Paris: Tilliard Frères, Juin 1806. \$2750.00

The very rare sale catalogue of the library of Louis Claude de Saint-Martin (1743-1803), best known as "le philosophe inconnu," the name under which his works were published. Influenced by the writings of Jacob Boehme, Saint-Martin proposed an ideal society of "a natural and spiritual theocracy," in which God would raise up men of mark, who would regard themselves strictly as "divine commissioners" to guide the people. He translated Boehme's works into French and wrote a series of books describing his own philosophy.

Fine copy. 1196 lots; most of the books are 17th and 18th century.

♣ *Encycl. Brit.* Grolier Club, *Printed Catalogues of French Book Auctions . . . 1643-1830*, 463–(suggesting that Louis Claude de Saint-Martin was possibly the owner. OCLC definitely states that it is his library). Peignot, p. 122. See the long biographical account of Saint-Martin in *N.B.G.*

10. (AUSTEN, J.). *Jane Austen: A Bibliography.* By Geoffrey Keynes. Four illus. & numerous facsimiles in the text. 12mo, orig. paper-backed boards, paper label on spine. London: Nonesuch Press, 1929. \$200.00

Limited to 875 numbered copies. A very elegant book. Fine copy from the library of Frank Altschul.

11. BANGE, E.F. *Eine Bayerische Malerschule des XI. und XII. Jahrhunderts.* 186 illus. on 67 plates. 168 pp. Large 4to, orig. cloth-backed

boards (one corner rubbed). Munich: H. Schmidt, [1923]. \$250.00

An excellent and detailed account.

*The Foundation of Hydrodynamics & the
Kinetic Theory of Gases*

12. BERNOULLI, Daniel. *Hydrodynamica, sive De Viribus et Motibus Fluidorum Commentarii. Opus Academicum...* Finely engraved vignette on title, one engraved headpiece, & twelve folding engraved plates. Title in red & black. 4 p.l., 304 pp. Large 4to, cont. calf (two corners very slightly worn, upper joint very carefully repaired), spine gilt, red morocco lettering piece on spine. Strasbourg: J.R. Dulsecker, 1738. \$16,500.00

First edition of the author's *magnum opus*, the foundation of the science of hydrodynamics, a term coined by Bernoulli, and of the kinetic theory of gases. By discarding the geometrical analogies used by Huygens and Newton and adopting advanced mathematical analysis, Bernoulli was able to treat successfully a number of problems in fluid dynamics, earning him the title of one of the founders of mathematical physics. In the *Hydrodynamica*, he enunciates the generality of the principle of conservation of force, established the principle of continuity for the motion of fluids, introduces the Bernoulli equation relating pressure to velocity and the equation governing the force of a laterally discharge fluid jet and its pressure on a facing plate.

Other important observations in the *Hydrodynamica* include the convertibility of heat to work and the quantification of the physiology of work, e.g., the maximum work, in energy terms, a man can perform in a day.

A very fine and fresh copy. Two old Jesuit library stamps on title. Ex Bibliotheca Mechanica with label.

• *D.S.B.*, II, pp. 39-40—(see for a long and detailed account). *Printing & the Mind of Man* 179n. Roberts & Trent, *Bibliotheca Mechanica*, pp. 34-35. Rouse & Ince, *History of Hydraulics*, pp. 95ff.

The Influential Edition

13. BERZELIUS, Jöns Jakob. *Lehrbuch der Chemie...*nach des Verfassers schwedischer Bearbeitung... übersetzt von F. Wöhler. 13 folding engraved plates. Four vols. bound in six. 8vo, cont. half-sheep & marbled boards, flat spines gilt, contrasting vellum lettering pieces on spines. Dresden: Arnold, 1825-25-26-26-27-28-31-31. \$2950.00

First complete edition in German of Berzelius' *Läbok I Kemien* (1808-30), "the most authoritative chemistry textbook of the period."—*D.S.B.*, II, p. 92. The translation was made by Friedrich Wöhler (1800-82), the prominent German

chemist who trained under Berzelius, became fast friends with the great Swedish chemist, and translated many of the writings of Berzelius into German (see *D.S.B.*, XIV, pp. 474-79). This was a very influential edition and formed the basis of the numerous translations into French, Dutch, and Italian.

Fine set.

• Partington, IV, pp. 142-77.

First Medical Endorsement of Harvey

14. BEVERWIJCK, Johan van. *De Calculo Renum & Vesicae Liber singularis. Cum epistolis & consultationibus magnorum virorum.* 8 p.l., 305, [15] pp. 12mo, cont. vellum over boards, yapp edges. Leyden: Elsevir, 1638.

[bound with]:

LANGWEDEL, Bernhard. *Carolus Piso Enuclatus, sive Observationes Medicae Pisonis.* 159, [9] pp. 12mo. Leyden: Elsevir, 1639. \$3500.00

I. First edition. The first part of the present book (pp. 1-208) contains Beverwijck's treatise on calculi in the kidney and bladder. The second part (pp. 209-305) contains letters addressed by Beverwijck to some prominent physicians (including Nuñez, Back, Saumaise, and Zacuto) whom he consulted on that subject, along with their replies. Several consilia by Sanctorius, Spiegel, Horst, and others follow.

Beverwijck (1594-1647), a relative of Vesalius, was a physician and professor of medicine at Dordrecht. At the end of 1637 he wrote a letter to Harvey in which he expressed his admiration for Harvey's discovery of blood circulation. At the same time he sent him a copy of the present book. It is the first medical treatise to contain an endorsement of Harvey's discovery, a remarkable fact in view of the negative attitude within the academic circles in Holland. The passage in question is found on pages 20-24 and is discussed by Walter Pagel in his *William Harvey's Biological Ideas* (1967), who reproduces the title-page of our book and two pages of the passage on Harvey. Interestingly, it escaped the attention of Dr. Ernst Weil in his "The Echo of Harvey's *De Motu Cordis*."

Harvey replied to Beverwijck's letter in April 1638, praising his book.

II. First edition (?); this is one of two editions published in the same year. Langwedel (1596-1656), a native of Hamburg, was physician to Duke Julius Heinrich of Saxony.

Fine copies.

• I. Keynes, *The Life of William Harvey*, pp. 271-73. Murphy, *History of Urology*, p. 78. Willems 463. II. Hirsch, III, p. 675. Willems 485.

Special Copy with Portfolio

15. **BIRD & BULL PRESS.** *Twenty-One Years of Bird & Bull. A Bibliography, 1958-1979.* By W. Thomas Taylor & Henry Morris. 108 pp. 8vo, orig. morocco-backed decorated boards laid into a clamshell box with leather spine label. [North Hills]: W.T. Taylor & Bird & Bull Press, 1980. \$500.00

Limited to 170 numbered copies, printed on handmade paper. This is one of the special copies with an accompanying portfolio which contains the various text pages and ephemera.

"In this Bibliography will be found detailed descriptions of all books published by the Bird & Bull Press as well as those produced for other publishers, up to 1979. Also included is a fairly complete list of ephemeral items and a list of articles 'by and about Henry Morris.' Each of the books published by Bird & Bull Press is accompanied by commentary written by Henry Morris."—from the Prospectus.

Fine copy.

16. **BIRD & BULL PRESS.** *A Pair on Printing. Atkyns' The Original and Growth of Printing. William Caslon and the First English Type Specimen Book.* Reproduced in Facsimile with Introductions by Carey S. Bliss. 137 pp. 8vo, orig. linen over boards, printed label on spine. North Hills: 1982. \$100.00

Limited to 500 copies, printed on Frankfurt paper.

17. **BIRD & BULL PRESS.** *Mr. Gladstone's Washi. A Survey of Reports on the Manufacture of Paper in Japan. The Parkes Report of 1871.* By Hans Schmoller. Three folding plates, full-page color reproductions of 20 Japanese watercolors depicting papermaking, facsimiles on Japanese paper of 30 woodcut illus., & a separate suite of color plates in a portfolio. Large 8vo, orig. red morocco-backed boards, gilt, morocco spine label, slipcase. Newtown: 1984. \$400.00

Limited to 500 numbered copies printed on mouldmade Hahnemühle paper in Van Dijck types. In the late 1860s, at the behest of Prime Minister Gladstone, Sir Harry Parkes traveled to Japan to assemble information on the art of Japanese papermaking. His report, together with a vast collection of handmade Japanese paper was shipped to England in 1871 and subsequently forgotten until its rediscovery by Hans Schmoller in the Victoria and Albert Museum. The entire text of the *Parkes Report* is here reproduced in facsimile, supplemented by Schmoller's account of his discovery, a biographical sketch of Parkes, and a

historical survey of the impact of Japanese paper on the West.
 Fine copy of a fascinating narrative of bibliographical detection.

- 18. BIRD & BULL PRESS.** *Louis Herman Kinder and Fine Bookbinding in America. A Chapter in the History of the Roycroft Shop.* By Richard J. Wolfe & Paul McKenna. Facsimiles, photographs, & plates (fourteen in color). ix, [4], 161 pp., one leaf with colophon. 8vo, orig. black morocco-backed decorated boards. Newtown, Pennsylvania: Bird & Bull Press, 1985. \$300.00

One of 325 numbered copies printed in Van Dijk type on Arches text. Kinder, a German-born binder, was associated with Hubbard and the Roycrofters from 1897 to 1911. He later made custom bindings for Rudge and did restoration work for Dartmouth.

Very fine copy.

- 19. BIRD & BULL PRESS.** *Thirty Years of Bird & Bull. A Bibliography, 1958-1988.* Compiled by Howell J. Heaney. With a Foreword & Commentary by Henry Morris. With many illustrations & specimens. 103 pp. 8vo, orig. morocco-backed paste-paper boards laid into a clamshell box with leather spine label. Newtown: Bird & Bull Press, 1988. \$500.00

Limited to 300 numbered copies, printed on paper handmade at the Press. With an accompanying portfolio which contains various sample text pages and ephemera.

Fine copy.

- 20. BIRD & BULL PRESS.** *Varieties of Spanish Marbling. A Handbook of Practical Instruction...* By Iris Nevins. Twelve samples of marbled paper tipped-in & illus. in the text. 79 pp., one leaf of colophon. 8vo, orig. cloth-backed marbled boards, red morocco lettering piece on spine. [Newtown, Pennsylvania]: Bird & Bull Press, 1991. \$250.00

Limited to 250 numbered copies. This is the first book to concern itself exclusively with the technique of Spanish marbling. Very fine copy.

"Aroused Much Interest"

- 21. BISCHOF, Gustav.** *Die vulkanischen Mineralquellen Deutschlands und*

Frankreichs [with facing title]: *Chemische Untersuchung der Mineralwasser zu Geilnau, Fachingen und Selters im Herzogthum Nassau, nebst allgemeinen Betrachtungen über vulkanische Mineralquellen, besonders über deren Ursprung, Mischung und Verhältniss zu den Gebirgsbildungen. Für Physiker, Chemiker, Geognosten und Aerzte, wie auch für unterrichtete Brunnen- und Bade-Reisende.* One engraved plate. xvi, 412 pp., [4] leaves. 8vo, cont. marbled boards (head of spine with small chip), spine lettered in gilt. Bonn: E. Weber, 1826. \$2250.00

First edition of an uncommon and important book. Bischof (1792-1870), professor of chemistry at the University of Bonn, was the first to investigate and emphasize the importance of water as a chemical agent in geological change. It was Bischof who created the new field of geochemistry.

"His main interest at first was the volcanic phenomena of the Eifel and neighboring areas — specifically, the springs in these areas, which he interpreted as being largely of volcanic origin. In 1824 [sic] he published *Die vulkanischen Mineralquellen Deutschlands und Frankreichs*, a work which aroused much interest and led to his being considered one of the main defenders of volcanistic theories (as opposed to the neptunistic)." —*D.S.B.*, II, p. 158.

Very good copy.

♣ Zittel, p. 202.

"Essential Reading"

22. (BOOKBINDING). *Broxbourne Library. Styles and Designs of Bookbinding from the Twelfth to the Twentieth Century.* Selected and Described by Howard M. Nixon. With an Introduction by Albert Ehrman. Many fine plates (several in color). Folio, orig. vellum-backed cloth, spine gilt, blue morocco lettering piece on spine (rubbed), t.e.g. London: Maggs Brothers, 1956. \$3000.00

Limited to 300 copies, printed at the Cambridge University Press. This is one of the best surveys of the history of bookbinding, ranging from a 12th century Romanesque binding to work by Roger Powell.

Fine copy. With an offprint, inscribed by A.N.L. Munby, of his review which appeared in *The Library*.

♣ Breslauer, *The Uses of Bookbinding Literature*, p. 30—Nixon's "*Broxbourne Library* is essential reading for any student of bindings."

"His Most Important Contribution"—Goldschmidt

23. (BOOKBINDING). *English Bindings before 1500.* By G.D. Hobson. 59 plates & numerous illus. in the text. 58 pp. Folio, orig. cloth, gilt, t.e.g.

Cambridge: at the University Press, 1929. \$650.00

Limited to 500 copies. "But Hobson's most important contribution to our knowledge of ancient bookbinding is laid down in his Sandars Lectures for 1927, published in 1929, *English Binding before 1500*."—E.P. Goldschmidt, "The Study of Early Bookbinding," in *The Bibliographical Society 1892-1942. Studies in Retrospect* (1945), p. 183—(& see that page for an extended discussion of this book).

Very good copy.

♣ Breslauer, *The Uses of Bookbinding Literature*, p. 28.

"Unequaled"

24. (BOOKBINDING). *La Legatura Artistica in Italia nei Secoli XV e XVI. Notizie ed Elenchi.* By Tammaro de Marinis. Tipped-in color frontis., about 1000 superb colotype plates (several tipped-in & in color) reproducing about 1500 bindings, & text illus. Three vols. Folio, orig. blue morocco-backed cloth, t.e.g., slipcases. Florence: Istituto di Edizioni Aristiche, 1960. \$3000.00

Limited to 500 copies, handsomely printed at the Stamperia Valdonega. The authoritative work on 15th and 16th century Italian bookbindings and a truly sumptuous book. The result of close collaboration with the reigning experts in the field, this lavishly illustrated work contains more than 3100 meticulous descriptions of books examined in public and private libraries both in Europe and the United States. Arranged by place of origin with a prefatory essay on each city and indexes.

A fine set.

♣ Breslauer, *The Uses of Bookbinding Literature*, pp. 21-22—"The great Italian bookseller-scholar Tammaro de Marinis covered the history of Italian bookbinding up to ca 1550 in [the present work]. In three folio volumes he lists about 3,500 bindings, grouped under the cities in which they were made (or he assumed they were), reproducing about 1,500 of them on almost a thousand plates. The work offers a wealth of material unequalled by any other publication of this nature."

"A Remarkable Catalogue"

25. (BOOKBINDING). *Shrewsbury School Library Bindings. Catalogue Raisonné.* By J. Basil Oldham. Colored frontis. & 62 fine plates. Folio, orig. cloth (covers a little spotted), spine gilt. Shrewsbury: Printed for the Library of the Shrewsbury School at the University Press, Oxford, 1943. \$1250.00

Limited to 200 numbered copies. A nice copy of this important and handsome book. The bindings are largely English, though there are a few notable French

and Italian examples.

Scarce.

♣ Breslauer, *The Uses of Bookbinding Literature*, p. 24—"a remarkable catalogue."

26. (BOOKBINDING). *Bookbinders of the United Kingdom (Outside London)*. By Charles Ramsden. Plates. 250 pp. 4to, orig. cloth, gilt, t.e.g. [London]: Privately Printed, 1954. \$300.00

Limited to 500 copies. A most useful book. Fine.

♣ Breslauer, *The Uses of Bookbinding Literature*, p. 26.

27. (BOOKBINDING). *Early Spanish Bookbindings XI-XV Centuries*. By Henry Thomas. 100 plates. 65 pp. Large 4to, orig. cloth-backed boards. London: Printed for the Bibliographical Society at the University Press, Oxford, 1939. \$225.00

"On early bindings of Spain we have now a valuable and amply illustrated study on these lines in H. Thomas's *Early Spanish Bookbindings*."—E.P. Goldschmidt, "The Study of Early Bookbinding," in *The Bibliographical Society 1892-1942. Studies in Retrospect* (1945), p. 180.

Very good copy. Scarce.

*An Important Exhibition Catalogue
of Bookbindings*

28. (BOOKBINDING). *The History of Bookbinding 525-1950 A.D. An Exhibition held at the Baltimore Museum of Art*. [Descriptions largely by Howard M. Nixon]. 106 fine plates. Large 4to, orig. stiff wrappers. Baltimore: Walters Art Gallery, 1957. \$125.00

This superb work stands as the best general survey of binding styles. The annotations and references are very informative.

♣ Breslauer, *The Uses of Bookbinding Literature*, p. 25—"the great American loan exhibition."

29. BRUECKMANN, Franz Ernst. *Specimen Physicum exhibens Historiam naturalem Oolithi seu Ovariorum piscium & concharum in saxa mutatorum*. Two fine folding engraved plates. 28 pp. Small 4to, attractive modern marbled wrappers. Helmstädt: S. Schnorr, 1721. \$450.00

First edition of this rare account of fossilized fish eggs. Brückmann (1697-1753),

a member of the Academia Caesarea Naturae Curiosorum, was a prolific author on mining, mineralogy, and related natural history subjects. He practiced medicine at Helmstädt and Braunschweig and, after receiving a considerable inheritance, traveled widely and formed an important mineral collection.

Fine copy.

☛ Hirsch, I, pp. 731-32. Poggendorff, I, 312-13. Schuh, *Mineralogy & Crystallography: A Bibliography, 1469 to 1920*, 884—"Rare."

30. LIBRARY OF CONGRESS. *The Lowery Collection. A Descriptive List of Maps of the Spanish Possessions within the Present Limits of the United States, 1502-1820.* By Woodbury Lowery. Edited with Notes by Philip Lee Phillips. Frontis. port. & a colored title-page. 1 p.l., x, 567 pp. Large 8vo, orig. cloth. Washington: G.P.O., 1912. \$175.00

750 maps are carefully described. The catalogue fills an important gap in describing the maps relating to the Spanish settlements not only in the U.S. but in North America as a whole.

Fine copy.

31. DREYFUS, John. *Italic Quartet. A Record of the Collaboration between Harry Kessler, Edward Johnston, Emery Walker, and Edward Prince in Making the Cranach Press Italic.* Facsimiles. viii, 50 pp. 8vo, orig. decorated cloth, spine gilt, slipcase. Cambridge: 1966. \$200.00

Limited to 500 copies. One of the most important of the Cambridge Christmas Books. Fine.

32. DUNCAN, Harry. *Doors of Perception. Essays in Book Typography.* 99 pp. 8vo, orig. grey morocco-backed paste-paper boards, spine gilt. Austin: W. Thomas Taylor, 1983. \$150.00

Limited to 325 copies on Frankfurt Cream paper, signed by the author. Designed by Carol J. Blinn at the Warwick press. This compilation of five essays by the founder of the Cummington Press includes a reminiscence of that venture and another of Victor Hammer. A very handsome book.

New.

Britain Surveyed from Top to Bottom

33. DUPIN, Charles. [Series title from the half-title]: *Voyage dans la Grande-Bretagne, entrepris relativement aux Services publics de la Guerre, de*

la Marine, et des Ponts et Chaussées, au Commerce et a l'Industrie, depuis 1816. Six vols. of text. Large 4to, cont. speckled boards, flats spines gilt. Paris: Bachelier, 1825-25-21-21-24-24.

[bound with]:

— *Atlas*. Three sectional title-pages & 36 finely engraved plates. Three vols. in one. Large oblong folio, cont. marbled boards, red leather lettering piece on spine. [Paris: ca. 1825-26]. \$4750.00

A mixed but complete set of this rare work; it is the most complete statistical survey of the military, naval, and public infrastructure as well as the industrial and commercial activities of Great Britain in the years immediately following the Napoleonic era. Dupin especially concentrated on the technological and industrial advances made in Britain.

Dupin (1784-1873), studied under Monge at the École Polytechnique where he made his first notable discovery, the “cyclid of Dupin.” While continuing his important researches and making notable discoveries in geometry, Dupin devoted himself more completely to public administration, political economy, statistical work, and politics. In his *Carte de la France éclairée* (1824), he was the first to use different colors to show the development of education in various parts of France.

The present work was conceived while Dupin was in charge of the construction of the naval base at Dunkerque. After a series of difficult negotiations with both the French and British governments, he was allowed to spend two years in Britain studying all aspects of the military establishment. Upon his return to France he published the first part — *Force militaire* in 1820 — which examined in a most favorable light the British army, its organization, and installations. His admiring account caused him and his report to be condemned by the French government, which ordered Dupin to submit for censorship any further parts of the *Voyage dans la Grande-Bretagne*. Dupin refused, tremendous publicity ensued, and the government ultimately capitulated.

Further visits to Britain allowed Dupin to finish his great survey and he published, without further government interference, the *Force navale* (1821) and *Force commerciale* (1824). During his visits he travelled from the foot of England to the north of Scotland, visiting all the major military and naval bases, the most important canals, bridges, and roads, and met all the leading engineers such as Banks, Wollaston, Young, Peter Barlow, and Rennie.

Our set contains the second edition of the *Force militaire* (1825) and the first editions of the *Force navale* (1821) and *Force commerciale* (1824). The 1820 first edition of the *Force militaire* is an extremely rare book as it was suppressed by the French government.

The six text volumes, very handsomely bound, come from the library of “le Comte de Schönborn Buchheim.” They have been completed by the atlas which has the bookplate and stamp of the Bibliothek des Reichs-Postamts.

Fine set and rare when complete.

• D.S.B., IV, pp. 257-58. N.B.G., Vol. 15, cols. 316-26.

One of His Rarer Books

34. EULER, Leonhard. *Opuscula Varii Argumenti*. Twelve engraved plates. 1 p.l., 300 pp.; 1 p.l., 166 pp.; 1 p.l., 165 pp. Three vols. 4to, cont. speckled sheep (minor rubbing & wear to one joint, some foxing as is usual with this book). Berlin: A. Haude & J.C. Spener, 1746-50-51.

\$8500.00

First edition of one of Euler's scarcer works; this collection contains separate monographs on astronomy, optics, magnetism, electricity, mathematics, and physics and includes several of Euler's most important and fundamental works.

Vol. I deals for the most part with astronomy and optics. It is valuable for Euler's tables of the sun and the moon and his discussion of the problem of perturbations. Euler's studies in astronomy embraced a great variety of problems: determination of the orbits of comets and planets, calculation of the parallax of the sun, the physical nature of comets, celestial mechanics, etc. With regard to optics, Euler herein rejected the dominant corpuscular theory of light and constructed his own theory in which he attributed the cause of light to peculiar oscillations of ether.

Vol. II is concerned with physics and mathematics. Topics examined here are the propagation of sound and light, analysis, the theory of differential equations, and ellipses.

In Vol. III, "Euler adopts the Cartesian doctrine of pores and magnetic particles, magnetic matter is more subtile than the ether itself and is propagated through a magnet in one direction only, p. 10; declination and dip explained, p. 30."—Wheeler Gift Cat. 366.

A very nice set. Old Jesuit library stamp on each title. Ex Bibliotheca Mechanica with label.

• D.S.B., IV, pp. 467-84. Houzeau & Lancaster 3482. Sotheran, Supp., 2242—"Rare."

A Lovely & Early American Color Plate Book

35. FISHER, John Dix. *Description of the Distinct, Confluent, and Inoculated Small Pox, Varioloid Disease, Cow Pox, and Chicken Pox*. Thirteen finely engraved & hand-colored plates. iv, 1 leaf, 73 pp. Large 4to, orig. boards sympathetically rebaked in green cloth (covers of binding with some staining, corners a bit worn), uncut. Boston: Wells & Lilly, 1829.

\$2250.00

First edition of this early American color plate book, finely illustrated with

thirteen hand-colored engraved plates. Fisher (1799-1850), founder of the Perkins Institution for the Blind in Boston, after taking his medical degree at Harvard in 1825, studied in Paris under Laennec, Andral, and Velpeau for two years. He became interested in the difficulties of distinguishing small pox from other eruptive skin diseases and, while in Paris, undertook to have paintings made which would illustrate the progress of the disease. The plates in the present work were made from the paintings. This book was highly esteemed during its time.

Fisher was a pioneer advocate of education for the blind, the first to use the stethoscope in the United States, one of the first to use ether during childbirth, and a "father" of the Massachusetts General Hospital.

A very good and clean copy and rather scarce on the market. Contemporary bookbinder's ticket of Whitney & Bradley, Boston. Bookplates of Edmund Wright Clap and Pamela Wick Lincoln.

☛ *D.A.B.*, III, p. 409.

The Fitzwilliam — Honeyman — Norman Travis Copy

36. FRENCH, John. *The Art of Distillation: or, a Treatise of the Choicest Spagyric Preparations, Experiments, and Curiosities, performed by way of Distillation. Together with the Description of the Choicest Furnaces and Vessels used by Ancient and Modern Chymists. And the Anatomy of Gold and Silver...To which is added in this Fourth Impression. Sublimation and Calcination: in Two Books. As also, The London-Distiller...* 44 woodcuts of furnaces, stills, & other apparatus in the text. xvi, 250, [22] pp.; 1 p.l., 43, [3] pp. Two parts in one vol. 4to, cont. blind-ruled sheep (margins of title browned & fore-edge a little chipped, some other mild browning), nicely rebacked to match, red morocco lettering piece on spine. London: E. Cotes for T. Williams, 1667. \$4250.00

"The fourth, final, and most complete edition of this classic work, augmented by the addition of books VII and VIII, 'Of Sublimation' (pp. 215-234) and 'Of Calcination' (pp. 235-250), respectively. 'The Calcination of Metals' (pp. 242-250) covers gold, silver, copper, iron, lead, tin, and mercury."—Neville, I, p. 484.

This was a popular work on distilling, on chemical procedures, and on the application of chemistry to medicine. The woodcuts are the same as those in Glauber's *Furni Novi Philosophici*; Ferguson draws attention to similarities between the first English edition of Glauber and the present book, both published in the same year, and both the work of John French.

A very good copy. Early signature on title of John Dorington and later signature on rear free endpaper of Joseph Hedges, 1693, together with some MS notes. Armorial bookplate of Earl Fitzwilliam and later bookplates of Robert B.

Honeyman and Norman Travis.

• Duveen p. 231. Ferguson I, pp. 292–293. Simon, *Bibliotheca Vinaria*, p. 151.

*The Beginnings of Modern Philology &
Comparative Linguistics*

38. **GESNER, Conrad.** *Mithridates...Exprimens differentias Linguarum, tum veterum, tum quae hodie, per totum terrarum orbem, in usus sunt.* Caspar Waserus recensuit & Libello commentario illustravit. Editio altera. Woodcut printer's device on title. 4 p.l., 140 numbered leaves. 8vo, cont. vellum over boards (lightly browned), ties gone. Zurich: Wolph, 1610.
\$2000.00

Second edition, revised and enlarged, of this famous book which marks the beginning of the study of modern philology and comparative linguistics; the first edition appeared in 1555.

"In the *Mithridates*...Gesner compared more than 130 languages, made conjectures on their origin and development and demonstrated his own linguistic ability by translating the Lord's Prayer in 22 languages. It is now generally acknowledged that this little work constitutes the starting point of modern philology and comparative linguistics...A treatise on the origin and relationship of languages. Though Gesner still considered Hebrew to be mankind's first language from which all others had developed through 'corruption', he showed that the members of certain language families (the Germanic, Romance and Slavic languages in particular) had some common features."—Wellisch, pp. 12 & 80 & A39.2.

The editor, Kaspar Waser (1565-1625), professor of Greek and Hebrew at Zurich, has added very valuable notes.

Fine copy.

*"The Actual Founder of the Italian
Hydraulics School"*

39. **GUGLIELMINI, Domenico.** *Della Natura de' Fiumi. Trattato Fisico-Matematico.* Engraved allegorical frontis. & 15 folding engraved plates. 6 p.l., 375 pp., [1] pp. 4to, 19th-cent. half-vellum & marbled boards, uncut. Bologna: Heirs of A. Pisarri, 1697.
\$3000.00

First edition, and a large uncut copy, of Guglielmini's greatest work in hydraulics and his major book. "One of the most important hydraulic works of its time... The book discusses the nature of rivers and their parts, the motion of water, confluents and estuaries, banks, and materials and application. The historic preface quotes Galileo, Torricelli, Castelli, Mariotte, Viviani, Varignon, Newton, Johann Bernoulli, Poleni, and Grandi."—Roberts & Trent, *Bibliotheca*

Mechanica, pp. 151-52.

Fine uncut copy. Ex Bibliotheca Mechanica.

♣ Riccardi, I, 643. Rouse & Ince, *History of Hydraulics*, pp. 68-71.

A Nearly Complete Run of Gurney Catalogues

40. GURNEY, R.D. A nearly complete run (104 of 107) of his wonderful catalogues: 1-6, 8, 10-53, 55-107. Small 4to, orig. wrappers. London: 1952-1989. \$1000.00

Richard Gurney's descriptions, while concise, are extremely learned.

Chlorine as a Disinfectant

41. GUYTON DE MORVEAU, Louis Bernard. *Traité des Moyens de Désinfecter l'Air, de prévenir la contagion, et d'en arrêter les progrès.* xxxii, 304 pp. 8vo, cont. calf (minor foxing), spine gilt, red morocco lettering piece on spine. Paris: Bernard, 1801. \$950.00

First edition "of a classic book in the history of chemistry and hygiene, in which the use of gaseous chlorine to fumigate churches and hospitals to destroy contagion and diseases is first described."—Neville, I, pp. 562-63. Guyton did important pioneering research on the disinfection of air, having been consulted about the problem of putrid emanations from corpses in the crypt of a Dijon church. Believing that decaying flesh gave off both ammonia and the disease-carrying particles, he first used hydrochloric acid fumes as a disinfectant. Guyton subsequently made the investigations described in his *Traité des Moyens de Désinfecter l'Air* (1801), and then used chlorine, which he found to be an effective disinfectant. A simple apparatus for producing chlorine from common salt is described in his book, which was translated into five languages.

For this service to humanity he was admitted to the Legion of Honor in 1805.

A very good copy, without the ads at end. Signature of Auguste Blandin on verso of title.

♣ Cole 573. *D.S.B.*, V, p. 603.

"This Important Work on Applied Chemistry & Technology"—Neville

42. HALES, Rev. Stephen. *Philosophical Experiments: containing Useful, and Necessary Instructions for such as undertake Long Voyages at Sea. Shewing how Sea-water may be made fresh and wholesome: and how Fresh-water may be preserv'd sweet. How Biscuit, Corn, &c. may be secured from the Weevil, Meggots, and other Insects. And Flesh preserv'd in Hot Climates, by salting Animals Whole. To which is added, an Account of Several Experiments and*

Observations on Chalybeate or Steel-waters... Likewise a Proposal for cleansing away Mud, &c. out of Rivers, Harbours, and Reservoirs. Which were read before the Royal-Society, at Several of their Meetings. One engraved plate. 2 p.l., xxx, 1 leaf of errata, 163 pp., 4 leaves of index & ads. 8vo, cont. speckled calf, double gilt fillet round sides, spine ruled in gilt, red morocco lettering piece on spine. London: W. Innys et al., 1739. \$1350.00

First edition. The experiments that Hales describes in this book are principally concerned with the health and welfare of sailors, and how the food and water on a ship, which on a long voyage were notoriously bad, may be preserved in an edible state. Hales also published a proposal for improving the ventilation on board ships.

Short crack at foot of lower joint, but a fine copy. Armorial bookplate of Ragley Hall.

♣ Neville I, p. 576—"This important work on applied chemistry and technology contains treatises on the distillation of seawater; the preservation of fresh water, biscuit, and meat at sea; the possibility of bottling mineral waters; and a method for removing silt from harbors."

43. HJÄRNE (or HIÄRNE), Urban. *Actorum Chemicorum Holmiensium... cum Annotationibus Joh. Gotschalk Wallerii.* Engraved folding allegorical frontis. & two folding engraved plates. xviii, [2], 283 pp., [7] pp., one leaf of errata; xi, [1], 194, [10] pp. Two vols. 8vo, cont. calf (joints a little cracked but strong, some rubbing), spines gilt, red morocco lettering pieces on spines. Stockholm: L. Salvi, 1753. \$2250.00

Second edition (1st ed.: 1712), greatly enlarged with the addition of an entire second volume, edited by Wallerius. These two volumes contain the account of the work done at the Royal Laboratory in Stockholm during some of its most fruitful years.

Hjärne (1641-1724), studied medicine at Uppsala, travelled and studied in England, France, and Germany, and was appointed by Charles XI director of the Royal Laboratory in 1683. "The most important result of his travels was an advanced grounding in analytical and experimental chemistry, which he acquired chiefly during three years of study in Paris with the famous Christopher Glaser..."

"Hiärne and several interested colleagues established a chemical research laboratory, which later became a national institution under the Board of Mines. Hiärne was appointed head of this Laboratorium Chemicum and simultaneously was named ordinary assessor at the Board of Mines (he became the board's vice-president in 1713). Hiärne set forth as the main purposes of the laboratory the examination of minerals and ores and the discovery of useful inventions. Extensive pharmaceutical research was also included in his program, and it is

clear from detailed records how much Hiärne cherished the field of spagyric pharmacology . . .

“The chemical research program was comprehensive enough to make its full realization exceedingly difficult. But Hiärne’s supervision, unusual energy, and outstanding laboratory equipment brought rapid success to the venture, a success evident even in the 1680’s. He had capable laboratory workers, the most able of them being Johann Georg Gmelin from Tübingen. The foundations laid by Hiärne, who envisioned the eventual creation of a viable Swedish center for advanced chemical research, proved to be enduring. Following Hiärne’s death in 1724, the research program remained virtually at a standstill for several years. But as soon as a qualified successor, Georg Brandt, took over, it soon began anew to foster many of the remarkable advances in Swedish chemistry in the 1700’s.

“Hiärne’s contributions in applied chemistry included work on improved methods for producing alum and vitriols, on impregnating agents to safeguard trees against rot, and on rust preventatives. In the field of pure chemistry he worked on problems concerning the formation of materials and the composition of bodies and ultimate particles; as his analytical method, he dissolved the substances and then tested them with different reagents and indicators which would elucidate the acid or alkaline nature of the bodies. He also studied alkalies in plants and the phenomenon in metals of increased weight through calcination. He is best known for his work on formic acid, which he produced through the distillation of ant specimens . . .

“A polymath whose breadth of activity stretched over many disciplines, he did outstanding work in each of his fields and was one of the luminaries of Sweden’s golden age of science.”—*D.S.B.*, VI, pp. 380-81.

Very good set.

♣ Cole 656. Duveen, p. 296. Partington, III, pp. 162-64.

44. HUNTER, Dard. *Papermaking by Hand in India*. 27 specimens & many photographically illus. plates. Large 4to, orig. black calf-backed decorated cloth sides, spine lettered in gilt. New York: Pynson Printers, 1939. \$5500.00

Limited to 370 numbered copies, of which this is “Out of Series E,” signed by Hunter and the publisher, Elmer Adler. Printed on fine paper.

A fine copy, preserved in a box.

♣ Schlosser 39.

A Major Reference Catalogue

45. (KIRCHER, A.). *Athanasius Kircher (1602-1680). Jesuit Scholar. An Exhibition of his Works in the Harold B. Lee Library Collections at Brigham Young University*. Introduction and Descriptions by Brian L. Merrill. Illus.

xxxviii, 74 pp. Large 8vo, orig. illustrated wrappers. Provo: 1989.
\$250.00

This catalogue has become a work of permanent reference. The Introduction contains a very full biographical sketch of Kircher, with much information not readily available. A list of his major works is provided.

The balance of the catalogue is devoted to careful descriptions of B.Y.U.'s collection of Kircher — 31 items in all — with title-page transcriptions, pagination collations, and invaluable annotations regarding the importance of each work, provenance, binding, and references.

Now out-of-print and very difficult to find.

From the Library of Franz Sondheimer

46. KLAPROTH, Martin Heinrich & WOLFF, Friedrich Benjamin. *Dictionnaire de Chimie...* traduit de l'Allemand, avec des Notes, par E.J.B. Bouillon-Lagrange...et par H.A. Vogel. Engraved frontis. port. & 8 engraved plates. Four vols. 8vo, cont. sheep-backed marbled boards (some foxing, upper joint of Vol. IV cracked & head of spine worn, very slight chips to heads of two other spines). Paris: Klostermann fils, 1810-10-11-11. \$1250.00

First edition in French of the first German chemical dictionary, originally published in Berlin in 1807–10. "Klaproth was the foremost supporter of Lavoisier's antiphlogistic theory in Germany, and in addition to his classic researches in analytical chemistry, he wrote an excellent chemical dictionary...The translators added valuable notes and state in their preface that all the important advances in chemistry since the beginnings of the science have been included. Detailed quantitative analytical data on chemical compounds and minerals, as well as the latest theories, are presented."—Neville, I, 732.

A very good set from the library of Franz Sondheimer with bookplate.

♣ Cole 729. Duveen, p. 325.

"Curieux et Recherché"—Caillet

47. KORNMAN, Heinrich. *Templum Naturae Historicum... in quo, De Natura et Miraculis Quatuor Elementorum; Ignis, Aeris, Aquae Terrae, ita disseritur...* 334 pp. 8vo, cont. vellum over boards (a few signatures browned due to the quality of the paper). Darmstadt: J.J. Porssio, 1611.
\$2500.00

First edition of this scarce book on the "miracles of the four elements." Kornmann (d. ca. 1620), studied law and then travelled throughout France and Italy. He returned to Frankfurt where he established himself as a lawyer and

wrote several other books on the “miracles of the living,” “miracles of the dead,” and “miracles of virginity.”

“The work on the miracles of the four elements has the alternative title, *Historical Temple of Nature*, and is largely drawn from antiquated authors. Not only are the elements still four, but comets are still exhalations in the supreme region of air. Tides, however, are attributed to the moon . . . Besides miracles of each element, there are alphabetical treatments of birds, quadrupeds, mountains, bodies of water, forests, gardens, trees, herbs, flowers, fruits, cities, temples, towers, bridges, and so on, passing from the realm of nature to that of art.”—Thorndike, VII, p. 280.

Fine copy with the Nordkirchen bookplate.

♣ Caillet 5831. Ferchl, p. 283—(knowing of the 1666 ed. only).

48. LA MÉTHERIE, Jean Claude de. *Essai Analytique sur l’Air pur, et les différentes Espèces d’Air.* 3 p.l., 474, [2] pp. 8vo, cont. sheep-backed boards (several small wormholes in margins of final few leaves), spine ruled in gilt, brown morocco lettering piece on spine. Paris: Rue et Hotel Serpente, 1785. \$1250.00

First edition. La Métherie (1743-1817), an inveterate opponent of Lavoisier’s theories, was chief editor of the famous *Journal de Physique* from 1785 until the year of his death. He wrote a number of important works on mineralogy and was a friend to many of the leading scientists of his time, especially Cuvier.

In this work, La Métherie stated that “all combustibles (including perhaps diamond) contain inflammable air, which he identified with phlogiston and thought it is contained in metals . . . He called oxygen ‘pure air’ and nitrogen (phlogisticated air) ‘impure air’. Pure air consists of vesicles inflated by the principle of heat. Nitrous air (nitrous oxide) is a compound of nitric acid and inflammable air or phlogiston. Fixed air, which he called ‘acid air’, can be converted into phlogisticated air or into pure air.”—Partington, III, pp. 494-95.

A very good copy. Old library stamp and prize inscription to “Cassé” with his signature and a Revolutionary date on front endpapers.

♣ Cole 742—“The book is a survey of existing information concerning various kinds of airs and the experiments and discoveries of Lavoisier, Priestley, Scheele and others.” *D.S.B.*, VII, pp. 602-04. Duveen, p. 335. Neville, II, pp. 5-6.

His First Major Publication

49. LAVOISIER, Antoine Laurent. *Opuscules Physiques et Chymiques.* Three folding engraved plates. 1 p.l., xxx, [2], 434, [six cancelled leaves], 435-36 pp. Two parts in one vol. 8vo, cont. speckled calf (joints & ends of spine carefully repaired), flat spine gilt, red morocco lettering piece on

spine. Paris: Durand, Didot le jeune, & Esprit, 1774. \$3500.00

First edition, mixed issue, of this "pioneer work in which [Lavoisier] first gives a historical survey of previous workers' efforts and then describes his own experiments on gases and the conclusions to be derived from them."—Duveen & Klickstein, p. 94.

This copy has one dedication leaf following the title (pp. i-ii) and six cancelled leaves bound between pages 434 and 435.

A very good copy.

♣ Cole 769. Duveen & Klickstein 121. Neville, II, p. 19—"It exerted a tremendous influence on Continental chemists and set the stage for Lavoisier's overthrow of the phlogiston theory."

50. LAVOISIER, Antoine Laurent. *Essays Physical and Chemical... Volume the First* [all published]. Translated from the French, with Notes, and an Appendix, by Thomas Henry. Three folding engraved plates. xxxii, [2], 475 pp., one leaf of ads. 8vo, cont. speckled calf (carefully rebacked), flat spine gilt, red morocco lettering piece on spine. London: J. Johnson, 1776. \$3000.00

First edition in English of the *Opuscules Physiques et Chymiques*. "Dedicated to the president of the Royal Society, Sir John Pringle, this translation... was carried out by Thomas Henry with the assistance of John Aikin. A close version of the French original, omitting only the *Rapport*, it contains a laudatory preface by Henry and footnotes he added throughout the text. The important appendix (pp. 405-428) is the first English edition of the first version of Lavoisier's famous 1775 memoir, in which he correctly explained the composition of the atmosphere and the role of oxygen in the calcination of metals and respiration (see Garrison-Morton, 922). It is followed by Henry's account of Priestley's opinions on his discovery of oxygen and its reaction with metals to form cakes. Although the title states that this is the first volume, no others appeared."—Neville, II, p. 19.

A very good and pretty copy with the leaf of ads at end.

♣ Cole 771. Duveen & Klickstein 124.

51. LAVOISIER, Antoine Laurent. *Elements of Chemistry, in a New Systematic Order, containing All the Modern Discoveries...* Translated from the French, by Robert Kerr. Two folding printed tables & 13 folding engraved plates (plate 11 with short tear carefully repaired). 1 [i.e., 50], 511 pp. 8vo, cont. blue-paper boards, nicely rebacked with old paper, uncut. Edinburgh: W. Creech, 1790. \$2500.00

First edition in English of the first edition of the *Traité* "and the only one on

which all English and American editions are based. This careful translation introduced English-speaking chemists to Lavoisier's epoch-making theories. The Scottish translator Robert Kerr (1755-1813), an ardent supporter of Lavoisier's antiphlogistic chemistry, states in his advertisement (p. viii): 'A few explanatory notes are added [and] some parenthetical expressions, only relative to the subject, which, in their original place, tended to confuse the sense.' Some alterations have been made in the tables in the appendix to accommodate the English reader: e.g., rules for converting French weights and measures are added and temperatures are given in degrees Fahrenheit."—Neville, II, p. 24.

"One of the great milestones in the history of chemical literature. By common consent modern chemistry begins with this work, 'which finally freed the science from its phlogiston chains and formed the starting point of its modern progress. It may be said to have done almost as much for chemistry as Newton's *Principia* did for physics' (Zeitlinger). Lavoisier used the balance to demonstrate the weight of matter at every chemical change, defined the terms element and compound, explained combustion and the rusting of metals as a chemical combination with oxygen, and through his concept of the conservation of matter developed methods of chemical analysis. The book contains the first list of twenty-three chemical elements and their compounds."—Neville, II, p. 21.

Very good uncut copy with half-title.

☛ Cole 782. Duveen & Klickstein 163.

52. LEMERY, Nicolas. *A Course of Chymistry, containing an easie Method of Preparing those Chymical Medicins which are used in Physick. With Curious Remarks and Useful Discourses upon each Preparation, for the benefit of such who desire to be instructed in the Knowledge of this Art. The Third Edition, translated from the Eighth Edition in the French, which is very much enlarged beyond any of the former.* Six woodcut plates, each with a page of explanation (together on 7 leaves). Title within ruled border, a full-page woodcut illus. on Zz1 recto, & three leaves of chemical symbols. 12 p.l., 815 pp., [8] leaves. 8vo, cont. calf, panelled in blind (small hole in leather of upper cover, a few stains on first & last leaves). London: Printed by R.N. for W. Kettilbuy, 1698. \$1250.00

Third edition in English. "The first English edition to be edited by the physician James Keill, M.D. (1673–1719), based on the eighth French edition (Paris, 1697). The text follows the Walter Harris translation closely but with the addition of much later material. This edition contains a 'really extensive account (pp. 684–732) of phosphorous, as well as Homberg's, the Bolognian and the Balduinian phosphors' (E.N. Harvey.)"—Neville, II, pp. 44–45. It also gives the first account in English of current theories of acids and alkalis (Musson & Robinson, *Science and Technology in the Industrial Revolution*, p. 33).

Lemery (1645–1715), one of the most influential chemists of his time, gave

lectures in Paris on the principles of chemistry which were known for being clear and simple. The present work is the textbook of his course of lectures. It enjoyed unprecedented success and went through many editions in French, English, Italian, German, Spanish, Dutch, Latin, etc. Keill had attended Lemery's lectures, and in his preface he gives a day-to-day syllabus of the thirty-four day course.

Very good copy. Dampstain in last 40 leaves but text otherwise quite clean. Early signature of Humphrey Bussel at top of title and on rear endpaper. Manuscript ownership inscription of T. Yonge 1753 on front pastedown, and signatures of James Yonge 1772.

• Cole 807. *D.S.B.*, VIII, pp. 172–175. Partington, III, pp. 28–41.

A Natural History Cabinet Described

53. LESSER, Friedrich Christian. *Epistola de praecipuis Naturae et Artis curiosis speciminibus Musei, vel potius Physiotechnotamei viri illustris, excellentissimi, experientissimi doctissimique Domini Friderici Hoffmanni, medicinae doctoris, eiusdemque professoris in Academia, quae Halae Hermundurorum floret...ad...Franciscum Ernestum Bruckmannum perscripta...* 16 pp. Small 4to, attractive modern marbled wrappers. [Halle: 1736]. \$1250.00

First edition. "Very scarce. Letter describing the curious aspects of nature as exhibited by specimens in his natural history cabinet."—Schuh, *Mineralogy & Crystallography: A Bibliography, 1469 to 1920*, 3019.

Lesser (1692-1754), acted as a tutor in Berlin before becoming pastor of the church and administrator of the Orphanage at Nordhausen. He was devoted to natural history and its relationship to the Bible. In this vein, he authored several books on insects, the sun, plants, etc. Lesser was a member of the Leopoldian and Berlin Academies.

Fine copy and more than very scarce; OCLC records no copy in the U.S.

54. MACQUER, Pierre Joseph. *Elemens de Chymie-Pratique contenant la Description des Opérations fondamentales de la Chymie, avec des Explications & des Remarques sur chaque Opération.* 2 p.l., xii, [8], 458 (i.e. 438) pp.; 8 p.l., 468 pp. Two vols. 12mo, cont. mottled sheep (a few gatherings lightly browned), spines gilt with red morocco lettering pieces on spines. Paris: J.T. Herissant, 1751.

[with]:

— *Elemens de Chymie Theorique*. Four folding engraved plates. xx (i.e. xviii), [2], 263, [17] pp. 12mo, binding as above. Paris: J.T. Herissant, 1751.
\$750.00

Reprints of the first editions (1751 and 1749 respectively) of the two works which together formed a complete course of practical chemistry for beginners. They superseded the textbooks of Lemery and Senac.

Nice set. Paper flaw in S2 of Vol. I without loss, also in lower margin of Kk6, and in Kk1 where the corner of the sheet is missing with loss of some 20 words or parts of words.

♣ Cole 882 (the *Pratique*). Cole does not list this reprint of the *Theorique*, but this copy is almost certainly the copy in “a private collection in England” noted in 884. Neville, II, pp. 119 & 120 respectively (also in matching bindings and describing both as very rare).

55. MACQUER, Pierre Joseph. *Elemens de Chymie-Pratique, contenant la Description des Opérations fondamentales de la Chymie, avec des Explications & des Remarques sur chaque Opération*. 2 p.l., xvi, [8], 517 pp.; 8 p.l., 574 pp. Two vols. 12mo, cont. (German?) half-vellum & marbled boards. Paris: J.-T. Herissant, 1751.
\$950.00

First edition, written to accompany the author’s *Éléments de Chymie théorique* (1749), which formed a complete course of practical chemistry for beginners. “It presents the operations of chemistry as applied to mineral, vegetable and animal substances and is, as well, an extensive account of compound substances.”—Cole 881. A reprint was done in the same year but with different pagination.

A fine set.

♣ Duveen p. 376—(with error in pagination noted by Cole). Neville, II, p. 119. Partington III, p. 80.

56. (MATHER, I.). *Increase Mather. His Works. Being a Short-Title Catalogue of the Published Writings that can be Ascribed to Him*. Compiled by Thomas J. Holmes. 59 pp. Large 8vo, orig. green morocco-backed marbled boards, gilt, t.e.g., others uncut, dust-jacket & slipcase. Cleveland: For Private Distribution, 1930.
\$100.00

Limited to 250 copies printed on WGM handmade paper by Horace Carr. Scarce. Fine copy.

57. (MATHER, I.). *Increase Mather. A Bibliography of His Works*. By Thomas James Holmes. With an Introduction by George Parker Winship

and Supplementary Material by Kenneth Ballard Murdock & George Francis Dow. Numerous facsimiles. Two vols. Small 4to, orig. green-morocco-backed cloth (rubbed, spines faded), gilt, t.e.g., others uncut. Cleveland: 1931. \$300.00

Limited to 500 sets. The definitive and exhaustive work. Scarce.

58. **(MATHER FAMILY).** *The Minor Mathers. A List of Their Works.* By Thomas James Holmes. Numerous facsimiles. 218 pp. Small 4to, orig. brown morocco-backed cloth, gilt, t.e.g., others uncut. Cambridge: Harvard Univ. Press, 1940. \$250.00

Limited to 200 copies only. A fine copy of this thorough work. Very scarce.

*An Important Reference Work on Mineralogy
& the History of Collecting*

59. **(MINERALOGY).** *The History of Mineral Collecting 1530-1799. With Notes on Twelve Hundred Early Mineral Collectors.* By Wendell E. Wilson. Plates in color & many facsimiles in the text. 264 pp. Large 4to, orig. cloth over boards. Tucson: The Mineralogical Record, 1994. \$125.00

First edition, hard-bound issue, of this extremely important and useful history of mineral collecting. This is the best book on the subject. Well indexed.

Out-of-print.

*The High Point of the Archimedean Revival
of the Renaissance*

60. **MONTE, Guido Ubaldo, Marchese del.** *Mechanicorum Liber.* Woodcut vignette on title & numerous woodcut diagrams in the text. 8 p.l. (the last a blank), 130 leaves, 1 leaf. Folio, cont. limp vellum (occasional minor dampstaining & light browning, ties gone). Pesaro: H. Concordia, 1577. \$13,500.00

First edition of a scarce and important book. "From the time of its publication in 1577 Guidobaldo's *Liber Mechanicorum* was indeed recognized as the most authoritative treatise on statics to emerge since antiquity, and it remained pre-eminent until the appearance of Galileo's *Two New Sciences* in 1638. It marks the high point of the Archimedean revival of the Renaissance. Not only did Guidobaldo establish statics on the rigorous mathematical procedures of Archimedes, but he also introduced an historiography of mechanics which was designed to legitimise the Archimedean revival."—Rose, *The Italian Renaissance of*

Mathematics, p. 222.

Most of the present work is concerned with the theoretical discussion of machines and the introduction contains an historical essay on the engines used by the ancients.

Monte (1545-1607), was Galileo's patron and friend for twenty years and was possibly the greatest single influence on the mechanics of Galileo.

A very good and large copy preserved in a morocco-backed box. Later endpapers. Ex Bibliotheca Mechanica.

• D.S.B., IX, pp. 487-89. Riccardi, II, 178—"Raro." Roberts & Trent, *Bibliotheca Mechanica*, pp. 228-29.

First Classical History of Mathematics

61. MONTUCLA, Jean Étienne. *Histoire des Mathématiques, dans laquelle on rend compte de leur progrès depuis leur origine jusqu'à nos jours; où l'on expose le tableau et le développement des principales découvertes dans toutes les parties des Mathématiques, les contestations qui se sont élevées entre les Mathématiciens, et les principaux traits de la vie des plus célèbres.* Two fine engraved frontis. ports. & 45 folding engraved plates. Four vols. Large 4to, cont. marbled boards, well-rebacked to style in calf, flat spines gilt, red morocco lettering pieces on spines. Paris: H. Agasse, 1799-1802.

\$2750.00

Second edition, improved and greatly enlarged, of the first classical history of mathematics which is today still indispensable as it contains much information not to be found elsewhere. This history, which was first published in 1758, is considered to be the author's masterpiece. Not only does Montucla provide a comprehensive history of the development of mathematical ideas throughout the 18th century, but he also includes mechanics, astronomy, music, mathematical geography, and navigation.

Montucla (1725-99), died before the last two volumes of the second edition were written. Lalande, his friend from childhood, assisted by others, completed the final two volumes.

Fine set. Old library stamp on each title. Ex Bibliotheca Mechanica.

The First Description of the Calculating Machine

62. NAPIER, John. *Rabdologiae seu Numerationis per Virgulas libri duo: Cum Appendice de expeditissimo Multiplicationis promptuario. Quibus accessit & Arithmeticae Localis Liber unus.* Nine folding tables (woodcut & letterpress), & numerous woodcut diagrams & tables in the text. 6 p.l., 139 pp., 2 blank leaves. 12mo, cont. mottled calf (very slightly rubbed),

panelled in gilt. Leyden: P. Rammasen, 1628. \$12,500.00

Third edition; this edition is much rarer than the first edition of 1617. This is the first description of a calculating machine.

"In 1617 Napier's intense concern for the practicalities of computation led him to publish another book, the *Rabdologiae*, which contains a number of elementary calculating devices, including the rods known as 'Napier's bones.' These rods, which in essence constitute a mechanical multiplication table, had a considerable vogue for many years after his death."—*D.S.B.*, IX, p. 610—(& see the rest of the article for more details).

Nice crisp copy.

• Dibner 107—(1st ed.). See *Printing & the Mind of Man* 116—in this work Napier "announced another important invention, 'Napier's Bones' . . . They were the precursors of seventeenth-century and modern calculating machines and computers."

63. (NAPIER, John.) *Napier Tercentenary Memorial Volume*. Edited by Cargill Gilston Knott. Plates (several in color). 441 pp. Large 4to, orig. white cloth (somewhat soiled), gilt, uncut. London: Longmans, Green, 1915. \$200.00

A valuable volume with historical and bibliographical articles by such leading authorities as Cajori, D. Eugene Smith, and d'Ocagne. With a detailed bibliography of the books exhibited at the Tercentenary.

64. NAVIER, Claude Louis Marie Henri. *Résumé des Leçons d'Analyse données à l'École Polytechnique . . . suivi de Notes par M. J. Liouville . . . Deuxième Édition, revue par M. Ernest Liouville*. Three folding lithographed plates (foxed). viii, 367 pp.; vi, 368 pp. Two vols. in one. 8vo, cont. red half-morocco & marbled boards (extremities a little rubbed, some foxing), spine gilt. Paris: V. Dalmont, 1856. \$250.00

Second edition, revised and with notes by Joseph Liouville (1809-82), professor of mathematics at the Collège de France. This was a standard textbook of the day.

Apart from the considerable foxing, a very good copy. Ex Bibliotheca Mechanica.

Influential on the Continent

65. NEWTON, Isaac. *Optice: sive de Reflexionibus, Refractionibus, Inflexionibus & Coloribus Lucis, Libri Tres . . . Latine reddidit Samuel Clarke*

Twelve folding engraved plates. [1] leaf of ads, 1 p.l., xi, [1], 415 pp., [1] p. of ads. 8vo, 18th-cent. speckled calf (carefully rebacked by Aquarius), double gilt fillet round sides, spine richly gilt, red morocco lettering piece on spine. London: G. & J. Innys, 1719. \$5750.00

Second edition in Latin and an influential book on the Continent. Newton published this edition in Latin to reach the Continental audience which had been little influenced by his optical experiments. The edition served its purpose and caused numerous demonstrations of his theory of colors to be performed in Paris. Newton's optical theories began to spread significantly outside Great Britain as a result of this book. See Westfall's *Never at Rest*, pp. 794-95.

A very good copy with the signature, dated 14 Mar. 1822, of Stephen Peter Rigaud (1774-1839), historian of science, astronomer, and Savilian professor of geometry at Oxford. Stamp of the Radcliffe Observatory on verso of title. With the bookplate of William A. Cole, the distinguished collector and bibliographer of chemistry.

• Babson 138.

Handsome Copy

66. **NICHOLSON, William.** *The First Principles of Chemistry.* One folding engraved plate. xxxi, 546, [4] pp. 8vo, cont. polished half-sheep & speckled boards, spine richly gilt, red morocco lettering piece on spine. London: G.G.J. & J. Robinson, 1792. \$1750.00

"Second edition, with Improvements" (1st ed.: 1790); this is a wonderfully fresh copy in fine contemporary condition. Nicholson (1753-1815), translator of Fourcroy and Chaptal, and editor of the first general scientific periodical in England published independently of the academics, was one of the important British figures in the new chemical movement.

"The author produced a text in which he 'attempted to keep clear of every system' with regard to nomenclature and theory. Since he believed the 'antiphlogistic hypothesis equally probable with the modified system of Stahl' he explains both . . . The text is divided into two Books, I. General Chemistry includes heat, construction of thermometers, combustion, methods of making experiments with gases, an account of balances and elective attractions; II. includes general principles of bodies, acids, metals, mineral combustibles, vegetable and animal products. The useful treatment in I. of thermometers and balances is not found in many texts."—Cole, p. 402—(describing the 1st ed.).

Very fine copy.

• Cole 977—"In the second edition the author has revised the work to some extent and inserted new discoveries." Neville, II, p. 228. Partington, IV, p. 19-20.

67. **OFFICINA BODONI.** *Vita Nuova di Dante. Proemio di Benedetto Croce.* Folio, orig. cloth, all edges uncut, slipcase. [Montagnola: 1925].
\$2950.00

Limited to 225 copies printed on Fabriano handmade paper. "The Officina Bodoni edition of this tender medieval poem is preceded by an introductory essay by Benedetto Croce, the greatest Italian philosopher of the century and a well-known bibliophile. Towards the end he says: 'It would be quite wrong . . . to criticize this printing of Dante's short work: it is more beautiful, perhaps, than any previous edition, though there have been some very lavish ones. In this edition, quite properly, the reader susceptible to poetry is left alone with Dante . . .'"—Schmoller 14.

Fine copy of one of the Press's earlier and largest books.

68. **OFFICINA BODONI.** *Eustachio Celebrino da Udene. Calligrapher, Engraver and Writer for the Venetian Printing Press.* By Stanley Morison. Woodcuts in the text & 8-page facsimile tipped-in. Large 8vo, orig. cloth, gilt, t.e.g., others uncut. Paris: Pegasus Press, 1929. \$2750.00

Limited to 175 numbered copies of this work on Celebrino's manual of learning to write the mercantile hand.

Fine copy with the large compliments slip of the University Printer pasted on the front endpaper. Very rare on the market.

♣ Schmoller 30.

69. **(OFFICINA BODONI).** *The Officina Bodoni. An Account of the Work of a Hand Press 1923-1977.* By Giovanni Mardersteig. Edited and Translated by Hans Schmoller. Profusely illus. (some in color). Large 4to, orig. cloth, gilt, slipcase. Verona: Edizioni Valdonega, [1980]. \$125.00

The essential history and bibliography of this press. Fine copy.

71. **(PAPER).** *Guilford & Green.* Woodcuts, facsimiles, & a full sheet made from one of the Kelmscott Press moulds. 88 pp. 8vo, orig. morocco-backed patterned boards, spine gilt, slipcase. North Hills: Bird & Bull Press, 1970. \$450.00

Limited to 210 numbered copies, printed on Bird & Bull and Green's dampened handmade paper. The first essay, entitled *A Visit to Hayle Mill* and written by Henry Morris, includes transcripts of 17 letters written by William Morris to the papermaker, Joseph Batchelor. The second essay consists of letters written by Nathan Guilford during a journey to Kentucky in 1814, containing

comments on American customs, events, and people. Preface by Whitfield J. Bell.
Fine copy with prospectus.

72. (PAPER). *Practical Remarks on Modern Paper.* By John Murray. With an Introductory Essay by Leonard B. Schlosser. Frontis. & illus. 120 pp. 8vo, orig. morocco-backed patterned boards. North Hills: Bird & Bull Press, 1981. \$250.00

Limited to 300 copies, printed in Baskerville type on Hahnemühle Ingres-Büttenpapier. John Murray's 1829 critique of current papermaking practices and abuses, although little regarded when first published, seems today "a work of remarkable prescience at a time when the books of the past 150 years are crumbling and there is effort both to conserve those and to preserve the literature and science of our own time."—from the Introductory Essay.

Fine copy with prospectus.

73. PEITHNER, Johann Thaddäus Anton, Ritter von Lichtenfels. *Versuch über die natürliche and politische Geschichte der böhmischen and mährischen Bergwerke.* Finely engraved title-page, one folding engraved map, & numerous large & fine engraved head- & tail-pieces. xx, 464, [34] pp. Folio, cont. marbled sheep (ends of spine & corners slightly worn, upper cover a little wormed, occasional minor browning as is usual with this book). Vienna: M. A. Schmidt, 1780. \$3750.00

First edition of this beautifully decorated and attractive book. This work contains a detailed account and history, district by district, of the mines of Bohemia, an area of great mineral wealth including coal, lignite, iron, and the raw materials for porcelain. Peithner provides much information on the earlier and contemporary mineralogical and geological histories of the area. Also included is a chapter on the rivers and streams contributing to the Moldau, Elbe, and Eger rivers, with mineralogical remarks. There is a long section of the mining laws and regulations which apply to the region.

Peithner (1727-92), was professor of mining at Prague and later became professor of mining law at Chemnitz and privy councillor at Vienna.

A very good copy. The fine head- and tail-pieces are signed by Jacob Adam and J.E. Mansfeld.

• Hoover 629. Poggendorff, II, 388-89.

Perronet's Masterwork

74. PERRONET, Jean Rodolphe. *Description des Projets et de la Construction des Ponts de Neuilly, de Mantes, d'Orléans et autres, du Projet du Canal de Bourgogne, Pour la Communication des deux Mers par Dijon, et de celui de la Conduite des Eaux de l'Yvette et de Bièvre à Paris.* Engraved frontis. port., engraved vignettes on titles & 67 magnificent engraved plates (many folding or double-page). Two vols. Large folios, cont. calf, spines gilt. Paris: de l'Imprimerie Royale, 1782-83.

[bound with]:

— *Supplément.* Eleven magnificent engraved plates (many folding). Large folio, orig. boards. Paris: Didot & Jombert, 1789. \$17,500.00

First edition and a very fine set of this splendid and handsomely illustrated book. "Jean Rodolphe Perronet is the father of modern bridge building and in his hands the masonry bridge reached technical and aesthetic perfection. He discarded the traditional rules of thumb, instead developing a fundamentally scientific approach to bridge design, and his precepts as laid down in this work have been followed ever since . . .

"While working on Hupeau's bridge at Mantes (begun 1757) Perronet, observing the movement of piers during construction, satisfied himself that in a completed multi-arch bridge adjacent arches thrust against each other and the piers only carry a vertical load. Traditionally, wide piers were needed only because each arch was built separately. Perronet realised that if he built all the arches at the same time and struck their centring simultaneously he could substantially reduce the size and cost of the piers and foundations. In his own bridge at Neuilly (begun 1768) he pioneered this revolutionary method of construction, the practical confirmation of theories advanced by earlier writers. Furthermore, he appreciated that arches could be very much shallower if the abutments were made capable of carrying the higher thrust. His next, and most radical, bridge at Pont-Sainte-Maxence (begun 1772) had a rise to span ratio of 1:11 as against the traditional 1:5, thus giving to the masonry bridge an entirely new architectural form. In this book all these bridges are described and very beautifully illustrated together with Perronet's best-known structure, the Pont de la Concorde in Paris. The single-arch bridge at Nogent, where he observed, measured and recorded the deflection of the arch after decentring, is also included. There is a lengthy description of Hupeau's earlier bridge at Orléans (begun 1751), partly because its foundations are similar to those of Mantes and Neuilly and partly to illustrate the machinery used in its construction, such as archimedean screws, chain pumps &c., which give a clear picture of contemporary building techniques. Perronet himself had developed a water-wheel at Neuilly, which, driven by the river current, powered the pumps, pile-drivers and installations. The volumes also contain the series of 'Mémoires'

on pile foundations, centring, thickness of piers and so on, in which his basic design philosophy is demonstrated, together with some reports on the surveying of the Canal de Bourgogne and on Paris water supply schemes."—Elton, *Cat. 15*, 75.

A fine and handsome set. Ex Bibliotheca Mechanica.

✦ Roberts & Trent, *Bibliotheca Mechanica*, p. 249. Timoshenko, *History of Strength of Materials*, p. 42—"His memoirs were widely read by structural engineers."

The Sexual Atomic Theory

75. PETTY, William. *The Discourse made before the Royal Society the 26. of November 1674. concerning the Use of Duplicate Proportion in sundry Important Particulars: Together with a New Hypothesis of Springing or Elastique Motions.* 16 p.l., 135 pp. 12mo, a rather odd binding of cont. vellum over boards (some abrading, title a little soiled). London: J. Martyn, 1674. \$6000.00

First edition. "Petty's work, actually two works in one, consists of the first part on 'the use of duplicate proportion' and, as an appendix, a 'hypothesis of springing or elastic motion.' The first is concerned with the quadratic relationship which was proposed by Galileo to define the flexure of a beam such that flexural resistance is proportional to the width of the section, to the square of its depth and inversely to its length. Without acknowledging Galileo's *Discorsi*, although it was known to him and the Royal Society either in the Italian or through Salusbury's translation, Petty provides a verbal description of how a beam's proportions affect its strength. He then went on to provide an example problem of how to determine the size of joists necessary to support a floor of specific size and load per square foot . . .

"Petty also provides a discussion of models and modeling theory and its application to the size of ships and their sails and the distance which sound carries and light may be seen. Again it utilizes quadratic relationships and owes its allegiance to Galileo, who discussed model theory in the first day of the *Discorsi* . . .

"Having begun with very practical and pragmatic problems, Petty slides into metaphysics in his second topic, the nature of elastic bodies. Noteworthy as the first English hypothesis regarding elasticity and the nature of elastic bodies, in it he proposes that matter was composed of corpuscles which were then made up of atoms. The atoms were held to have both magnetic properties and sexual characteristics. His theory was attacked on the grounds of being atheistic and led one critic to say that God created heaven and earth but no atoms. Purver, M. *The Royal Society: Concept and Creation* (Cambridge: MIT Press, 1967), pp. 157-158."—Roberts & Trent, *Bibliotheca Mechanica*, pp. 250-51.

Nice copy. Long clean tear to C2 neatly repaired. Ex Bibliotheca Mechanica.

✦ *D.S.B.*, X, pp. 564-67. Wing P-1919.

"One of Poisson's Chief Treatises"

77. **POISSON, Siméon Denis.** *Théorie Mathématique de la Chaleur*. One folding engraved plate (a little foxed). 2 p.l., 532, [2] pp. Large 4to, cont. purple boards (corners a bit worn, a little foxed as usual), flat spine gilt, green morocco lettering piece on spine, uncut. Paris: Bachelier, 1835. \$3250.00

First edition of Poisson's important formulation of equations describing the distribution of heat within bodies. "Poisson scored a point in this work by demonstrating how the conductivity of heat in the interior of bodies, far from being contained in the notion of flux as Fourier had held, must be derived from an absorbtion coefficient that restores a neglected functional dimension."—*D.S.B.*, XV, p. 488.

A very fine copy in original state.

• Roberts & Trent, *Bibliotheca Mechanica*, pp. 260-61—"This is the first edition of an important work in which Poisson formulated equations for the distribution of heat in bodies. As opposed to Fourier, who maintained in his *Mémoire analytique de la chaleur* that the conductivity of heat was contained in the motion of flux, Poisson showed that it must be derived from an absorptive coefficient restoring the neglected functional dimension . . . One of Poisson's chief treatises."

78. **PRIESTLEY, Joseph.** *Histoire de l'Électricité*, traduite de l'Anglois de Joseph Priestley avec des Notes critiques. Nine folding engraved plates. Three vols. 12mo, cont. blue boards (boards a bit worn), red morocco lettering pieces on spines. Paris: Herissant, 1771. \$950.00

First edition in French of the first extensive history of electrical discovery and theory. The translators were the Abbé Nollet and Mathurin-Jacques Brisson. It was published on the advice of Benjamin Franklin and corrected by him, but the Wheeler Gift remarks that the numerous notes by Brisson are anti-Franklinian in nature.

Very nice set. Library stamp and neat library inscription on half-titles and on titles of Vols. II and III.

• Ekelöf 474. Wheeler Gift 453b.

A Major Bibliographical Reference Work

80. **ROBERTS, Verne L. & TRENT, Ivy.** *Bibliotheca Mechanica*. 50 black & white illus., including a facsimile of the frontispiece portrait of Sir Isaac Newton taken from the orig. engraving by Vertue for the third edition

of the *Principia*. Large 4to, 424 pp. New York: Jonathan A. Hill, [1991].
 Regular edition: \$260.00
 Limited edition: \$500.00

Limited to 1000 copies of the regular edition, handsomely bound in cloth-backed decorated boards. There are also 100 copies of a deluxe issue, bound in quarter goatskin by hand and containing a re-strike from the original engraved copper plate of the famous frontispiece of Newton.

The Verne L. Roberts collection is devoted to rare and important books in the fields of mechanics, biomechanics, the strength of materials, and the history of technology. This is one of the most remarkable private libraries to be formed in recent decades and the books and manuscripts in this catalogue, including many of the classics of physics, demonstrate the origins of these fields of science and their development through the ensuing three centuries. The roots of these sciences are also illustrated through a number of important 15th and 16th century books.

The catalogue describes approximately 1200 items. The extensive bibliographical and historical descriptions of the books and authors document and define the growth and development of ideas in the history of science and technology. Many of the books are noted for their rarity and have not hitherto been described adequately from a historical or bibliographical point of view. Fully indexed.

Attractive dealer discounts are available.

One of the Greatest of All American Bridge Books

81. ROEBLING, John Augustus. *Long and Short Span Railway Bridges*. Frontis. port. of Roebling & 13 plates (11 are double-page & two are very large & folding). 2 p.l., 50 pp., [10] leaves of tables. Large folio, orig. cloth (lower outer corners a little jammed, rebacked), upper cover lettered in gilt. New York: D. van Nostrand, 1869. \$12,500.00

First edition of a rare book. "John Roebling's only published work (apart from job reports), this splendid book is concerned to show the suitability of the suspension bridge for railway use, in particular a combined arch and suspension bridge system, which he calls a 'parabolic truss', demonstrating its superiority and economic advantages over lattice and tubular girders. I. K. Brunel in his Saltash bridge had successfully made use of such a combination, building parabolic arches with their ends tied together by suspension chains. Roebling cites this bridge but his own system is somewhat different in that the springing of the arched truss is well below the level of the saddles and is intended to provide the necessary stiffness to distribute the point load of a moving locomotive and train, the major problem to be overcome in designing railway suspension bridges...

"The present work details his optimum design for a bridge with a central span of 500ft and two side spans each of 300ft, describing its component parts and method of construction and proving it theoretically. The other central feature are his designs of 1855 and later for a 'parabolic truss' bridge to carry both road and rail over the Mississippi at St. Louis, a project eventually carried out by Eads. Roebling's designs have spans of up to 800ft, which he considers to be the practical and economic limit of his bridge system. In view of his experience with the Niagara Falls bridge (completed 1855, span of 821ft), the deep deck beam of which acted as a stiffening truss, he maintains that for longer spans the pure suspension type is the most appropriate form . . .

"Although the title refers to short-span bridges, only a small portion of the work is devoted to them. Roebling had intended the book to be the first of several volumes, but died before these could be achieved. As it was, this book was itself published posthumously, though he had completed the manuscript and revised most of the proofs and plates before his death. Aimed at the practising engineer and straightforwardly written, using the simplest of calculations, it clearly demonstrates Roebling's design philosophy and his pre-occupation with stiffness and with economy of construction. With its series of superb plates it is one of the handsomest (and rarest) books in American civil engineering literature."—Elton, *Cat. 4*, 40.

A fine copy.

83. SIGAUD-LAFOND, Joseph Aignan. *Précis Historique et Expérimental des Phénomènes Électriques, depuis l'Origine de cette Découverte jusqu'à ce jour.* Nine folding engraved plates. xvi, 742, [2] pp. 8vo, cont. mottled calf (ends of spine neatly restored, several wormholes in surface of both covers, some very faint dampstaining). Paris: Hôtel Serpente, 1781. \$950.00

First edition. "Work of merit in which the phenomena and laws of electricity and magnetism are discussed at length; electric and magnetic phenomena compared; application to the cure of disease; historical development."—Wheeler Gift Cat. 505.

The attractive plates illustrate electrical instruments and experiments.

Sigaud (1730-1810), succeeded Abbé Nollet to the chair at the Collège Louis-le-Grand where he taught experimental science, anatomy, and physiology.

Very good copy.

☛ *D.S.B.*, XII, pp. 427-28.

The Earliest International Chemical Industry

84. SINGER, Charles. *The Earliest Chemical Industry. An Essay in the Historical Relations of Economics & Technology illustrated from the Alum*

Trade. With a Preface by Derek Spence. Frontis. & four colored collotype plates, one folding plate, & 13 more color illus. (some full-page) in the text. Numerous other collotype & line illus. xviii pp., one leaf, 337 pp., one leaf of colophon. Folio, orig. red morocco by Sangorski & Sutcliffe, gilt device on upper cover, t.e.g., slipcase. London: [Printed by the Chiswick Press, for] The Folio Society, 1943. \$950.00

First edition, number 54 of 55 copies signed by the author, printed on handmade paper and specially bound in red morocco by Sangorski & Sutcliffe (out of an edition of 1100 copies), published in memory of Peter Spence, the founder of one of the leading alum manufacturing firms in 19th-century England. This is one of the few histories centered round a particular chemical industry. The intricate role that alum has played in both scientific and social realms from antiquity is vividly chronicled. As Derek Spence points out in the Preface "in the process of tracing the applications of this simple chemical substance, and the resulting currents of trade, we have repeatedly been astonished to find the threads of our story involved in many great human movements, political, economic, social, technical, scientific, philosophical, religious and artistic" (p. vi).

A special copy of a lovely book, and certainly one of the most beautifully produced books on any aspect of the history of science. A handsome folio, it was printed by the Chiswick Press on hand-made paper. The color-collotype plates were printed by Alinari of Florence, the maps by George Philip and Son, and the colophon engraved by Stephen Gooden. This copy also has Derek Spence's card inscribed "With Compliments" pasted in at the beginning, and the original prospectus loosely inserted.

The Bute Copy

85. [SMITH, Godfrey, comp]. *The Laboratory, or School of Arts: in which are faithfully Exhibited and fully Explain'd, I. A Variety of curious...Experiments in Refining...Gold... II. Choice Secrets for Jewellers... III. Several uncommon Experiments for casting in Silver, Copper, Brass... IV. The Art of Making Glass... V. A collection of very valuable Secrets for the Use of Cutlers, Pewterers,... VI. A Dissertation on the Nature and Growth of Saltpeter...* Translated from the German. Engraved allegorical frontis. & five engraved plates. 4 p.l., 242, [6] pp. 8vo, cont. speckled calf (corners a bit worn, headcap very slightly chipped), double gilt fillet round sides, spine gilt, red morocco lettering piece on spine. London: T. Cox, 1738. \$2500.00

First edition of "a rare book of secrets of considerable chemical interest...Being a practical book on various chemical processes and other technology for the use

of artisans, housewives, and other nonprofessionals, very few copies have survived. This work was translated by Godfrey Smith from the anonymous *Der Curieusen Kunst- und Werk-Schul* (Nuremberg, 1732).—Neville, II, p. 486.

Nice copy with the engraved armorial bookplate of The Right Hon. John Earl of Bute.

• Duveen, p. 331—(under *Laboratory*).

86. TAYLOR'S BUILDERS' PRICE-BOOK. 1839. *Corrected to the Present Time. Taylor's Builder's Price-Book, entirely rearranged; containing a Correct List of Prices for all Descriptions of Builders' Work; Tables for the purchase of Annuities and Leases; Weight and Strength of Materials...with a Variety of other Information of Value to the Surveyor and Builder...Considerable Additions have been made; the work has been entirely rewritten, and contains a Variety of Information not to be found in any other Work.* By an Eminent Surveyor. Three lithographed plates. 8, 205 pp. 8vo, orig. printed semi-stiff boards. London: M. Taylor, [1839]. \$1250.00

Builders' Price Book, first published by the Taylors in 1776, "was the standard work on the costs of building materials and labour for over a century."—Harris, *British Architectural Books and Writers 1556-1785*, p. 133. Editions continue to appear with updated prices until the mid-nineteenth century. Essential books of this sort, designed to fit into the pockets of architects and builders, do not survive well as they were typically used to death. This copy is in wonderfully fresh condition.

Tipped-in at the front is an 18-page catalogue issued by Josiah Taylor's nephew and successor, M. Taylor, of his books for sale on architecture, ornamental cottages and villas, civil engineering, etc.

Fine copy and rare.

*"The Earliest Printed Catalogue of a Library Classified
by Subjects"—Pollard & Ehrman*

87. (THOU, Jacques Auguste de). *Catalogus Bibliothecae Thuanae a...Petro & Jacobo Puteanis ordine Alphabetico primum distributus. Tum Secundum scientias & artes a...Ismaele Bullialdo digestus. Nunc vero Editus a Josepho Quesnel...cum Indice Alphabetico Authorum.* Engraved frontis. & engraved headpiece of a library by Sébastien Leclerc. 52 (incl. frontis.), [4], 510 pp.; 631 pp. Two vols. 8vo, Vol. I in antique speckled calf designed to match Vol. II which is in early 18th-cent. speckled calf, blindstamped acorn device in corners of each cover, red morocco

lettering pieces on spines. Paris: [L. Billaine], 1679. \$8500.00

First edition of "the most celebrated and frequently consulted seventeenth-century private library catalogue. The library was largely formed by Jacques Auguste De Thou (1553-1617), the eminent French historian and statesman. Although the purpose of its publication was the sale of the De Thou library, which took place in 1681, its continued usefulness called for a reprint in 1704...Most of the descriptions are in fact not by the brothers Dupuy but by the well-known scientist Ismael Boulliau (1605-1694), who arranged them according to a bibliographical system which, with slight variations by Prosper Marchand (ca. 1676-1756), and Gabriel Martin (1679-1761), was the one most frequently adopted in France and became known as the 'Système des Libraires de Paris'."—Grolier Club, *Bibliography*, 76.

A very good set and rare on the market. The first volume is a little browned throughout and has some marginal worming to the final 45 leaves.

✦ Gustave Brunet, *Dictionnaire de Bibliologie Catholique*, col. 533. Pollard & Ehrman, pp. 208-09 & 211-12.

88. (TINKER, Chauncey Brewster). *The Tinker Library. A Bibliographical Catalogue of the Books and Manuscripts collected by . . .* Compiled by Robert F. Metzdorf. Frontis. port. & plates. 530 pp. Large 8vo, orig. cloth. New Haven: Yale University Library, [1959]. \$250.00

Limited to 500 copies. A very valuable reference work for English literature, with excellent collations. Fine copy. Presentation copy from the compiler to Harrison and Jean Horblit.

89. URE, Andrew. *A Dictionary of Arts, Manufactures, and Mines: containing a Clear Exposition of their Principles and Practice.* 1241 illus. in the text. vii, [1], 1334 pp. Thick 8vo, cont. calf (head of spine neatly restored), spine gilt, brown morocco lettering piece on spine. London: Longman. . . , 1840. \$750.00

Second edition of this invaluable work which gives us some of the best evidence we have of the actual state of chemical technology of the time. Ure (1778–1857) was a pioneer in the teaching of science to artisans and this is his chief work on the subject. "The author draws on his long experience as a professor of practical science and as a consultant to manufacturers both in Great Britain and abroad to prepare a work useful to manufacturers, metallurgists, merchants, students and the general public" (Cole). There are very substantial sections on papermaking, dyeing, and tobacco. Published one year after the first edition, this edition is an exact reprint of it, testifying to its immediate success.

Armorial bookplate of Joseph Gwilt (1784–1863), architect and writer, on front

pastedown.

*The First Work on Cotton Spinning Published in France;
The Dedication Copy, printed on Papier Vélin*

90. VAUTIER, F. *L'Art du Filateur de Coton. Ouvrage dans lequel on expose tout ce qui est relatif à cet Art.* Ten fine folding engraved plates. xv, 328 pp., one leaf of errata. 8vo, cont. blond calf, initials "L.R." in center of upper cover, gilt decorations round edges of each cover, spine gilt (spine a little dull), red morocco lettering piece on spine, a.e.g. Paris: Audin, 1821.

\$5000.00

First edition of a very rare book; this is the dedication copy in a fine contemporary binding with the initials "L.R." stamped in gilt on the upper cover. This copy belonged to the dedicatee, François Alexandre Frédéric, le Duc de La Rochefoucauld Liancourt (1747-1827), French philanthropist and social reformer. He established a model farm at Liancourt, a school of arts and crafts for the sons of soldiers, and was active politically for nearly thirty years.

This is the first work published in France on the spinning and manufacture of cotton. Vautier provides a detailed history of the introduction of cotton into England and France from various colonies in warmer climates. He gives an extended discussion of the botany and cultivation of the cotton plant and the different species. He also describes the qualities of cotton from each colony including Georgia, Santo Domingo, Guadeloupe, Louisiana, and Venezuela.

Most of the book is devoted to contemporary and early methods of cotton spinning and manufacture. Of course, this section is dominated by the developments which took place in England, ranging from Kay's "Fly" shuttle to the spinning jenny, Arkwright's invention, Crompton's "Mule," the power loom employing steam power, etc.

Pages 281-89 contains a fascinating list of cotton weavers and manufacturers of weaving machines throughout France.

Fine and handsome copy. Bookplate of "Le Comte Henry Chandon de Briailles, 1898-1937."

The Venturi Principle — A Famous Rarity

91. VENTURI, Giovanni Battista. *Recherches Expérimentales sur le Principe de la Communication Latérale du Mouvement dans les Fluides, Appliqué à l'explication de différents Phénomènes hydrauliques.* Two folding engraved plates. 88 pp. 8vo, attractive antique half-calf & marbled boards (some foxing & light browning), spine gilt, red morocco lettering piece on spine. Paris: Houel & Ducros, 1797.

\$8500.00

First edition of this classic and extremely rare work in the history of hydraulics.

In this book, Venturi (1746-1822), postulated what is now termed the “Venturi Principle,” namely that in passing through converging pipes fluids under pressure gain speed and lose head, and vice versa for diverging pipes. The Venturi principle is now very widely adopted for metering flows in pipes, tunnels, and channels.

Very good copy.

✦ Kent, W.G., *An Appreciation of Two Great Workers in Hydraulics* (London: 1912), stated that only two or three copies of this “most interesting volume” still exist. Roberts & Trent, *Bibliotheca Mechanica*, pp. 339-40—“Venturi’s classic and surprisingly rare work in experimental hydrodynamics, describing a series of experiments which he undertook in Italy, using Poleni’s efflux apparatus. Rouse & Ince, *History of Hydraulics*, pp. 136-37.

A Fine Copy

93. VIVIANI, Vincenzo. *De Maximis et Minimis Geometrica Divinatio in Quintum Conicorum Apollonii Pergaei*. Two full-page engraved plates on one double-page sheet, two woodcut plates, & numerous woodcut diagrams in the text. Woodcut of Medici arms on titles which are printed in red & black. Two parts in one vol. 8 p.l., 154 pp.; 2 p.l., 154 pp., one leaf of errata. Folio, cont. vellum over boards (foot of spine a tiny bit worn), unidentified coat-of-arms in gilt in center of upper cover. Florence: J. Cocchini, 1659. \$9500.00

First edition and a splendid copy of the author’s first book in which Viviani attempted a reconstruction of the important fifth book of Apollonius’ *Conics*, a text at that time lost. The *Conics* was in eight books, but only the first four have come down to us in the original Greek. There was some knowledge of the fifth book due to hints supplied by other Greek mathematicians and it was this information which Viviani used. While Viviani was working on his reconstruction of the fifth book, Borelli discovered in an Arabic manuscript in the Medicean Library the text of books five through seven (book eight is lost). These were then translated into Latin by Borelli and Ecchellensis and were published in 1661. The similarity between Viviani’s reconstruction and the actual text was very great.

It is Book V which has particularly evoked the admiration of modern mathematicians. It “reveals better than any other the giant intellect of its author. Difficult questions of *maxima* and *minima*...are here treated exhaustively...Here are also found the germs of the subject of *evolutes* and *centres of osculation*.”—Cajori, *History of Mathematics*, pp. 40-41—(on Apollonius).

In this book, Viviani also “published his results on what is now called the *Steiner problem* (although the designation *Fermat problem* would be more appropriate) as an appendix to his celebrated reconstruction of the fifth book of Apollonius’s *Conic Sections* where the ancient author treated maximum and

minimum problems related to conic sections.”—Hildebrant & Tromba, *The Parsimonious Universe*, p. 92.

Viviani (1622-1703), a disciple and biographer of Galileo, established his reputation with this work.

Fine copy with half-title.

♣ Cinti 135. Riccardi, II, 625—“Raro e pregiato.”

Wallis Posthumously Settles a Squabble

94. WALLIS, John. *A Treatise concerning St. Matthias Day, Misplaced in the Oxford Almanack for the Year 1684 (being Leap-Year) at Feb. 24. In a Letter from Dr. Wallis to Dr. John Fell late Lord Bishop of Oxford. Published from the Original Manuscript in the Savilian Study.* 3 p.l., 28 pp. 8vo, cont. calf (well-rebacked), spine gilt, red morocco lettering piece on spine. Oxford: 1719.

\$2950.00

First edition of this very scarce posthumously published work. We learn from the Preface that there was considerable debate within the Oxford community regarding keeping St. Matthias’s Day on the 24th or 25th of February in leap years. Wallis’s text, from a manuscript written in 1684, was published to add support for the 24th as the preferable day.

Fine copy.

To Be Sold by Private Treaty

95. (WEISSENBRUCH, [Charles A.G.?]). *Catalogue d’une très-belle Collection de Livres, composant la Bibliothèque de M. Weissenbruch, Imprimeur du Roi, à Bruxelles.* [5]-108 pp. 8vo, orig. printed wrappers, stitched as issued, uncut. Brussels: Weissenbruch, 1820.

\$2250.00

A very rare privately issued catalogue offering the library of Weissenbruch, the printer to the King and to the city of Brussels. Blogie suggests that the owner was Charles Weissenbruch (1740-1822) and I agree with her. Weissenbruch was a brother-in-law of Pierre Rousseau (1717-85), the publisher of the *Journal Encyclopédique*, which was devoted to extracts, articles, and anecdotes regarding the *Encyclopédie*. Weissenbruch, a masonic grandmaster, was skilled at smuggling copies of the *Journal Encyclopédique* — forbidden in France — past customs officials. Rousseau’s Société Typographique de Bouillon was inherited by Weissenbruch and renamed Imprimerie Weissenbruch. It was moved from Bouillon to Brussels in 1795 where it continued to operate well into the 20th century.

This well-printed catalogue, issued without a title-page (the upper wrappers serves as one) describes 2127 lots and we learn on the final leaf it was issued to facilitate the sale of the library by private contract. Failing that, the books would

be sent to auction in March or April of 1820.

The library was rich in Enlightenment books, forbidden books, and literature. Fine and fresh copy. Not in OCLC.

• Bloigie col. 65.

96. WIEGLEB, Johann Christian. *A General System of Chemistry, Theoretical and Practical. Digested and arranged, with a Particular View to its Application to the Arts.* Taken chiefly from the German of M. Wiegleb. By C.R. Hopson, M.D. Four printed tables & two engraved plates. 1 p.l., ii, vii, [1], 670, [42] pp. Large 4to, cont. mottled calf (leaf I2 stained by splashes, stain in lower margin of 3U4), flat spine gilt, double gilt fillet round sides. London: G.G.J. and J. Robinson, 1789. \$950.00

First edition in English of Wiegleb's *Handbuch der allgemeinen Chemie*, described by Partington as "still based on the phlogiston theory, but clear and well arranged." It covered

all branches of the subject, including pure, physical, pharmaceutical, descriptive, technical, and economic chemistry. This, the only English edition, was edited by the physician Charles Hopson (1744–1796), who added notes and a few new sections. A dissertation on specific heats was supplied by Johan Gadolin.

This handsome quarto, a format used for only a handful of books on chemistry of this period, is quite rare; it is not in Duveen nor the Neville catalogue.

A lovely copy. Printed note on the analysis of Crescent Water inserted at p. 344. Upper joint almost imperceptibly repaired. Bookplates of William Downes and Norman Travis.

• Cole 1374. Partington III, p. 567, VIA.

97. WILSON, Adrian. *The Work & Play of Adrian Wilson. A Bibliography with Commentary.* Edited by Joyce Lancaster Wilson. Tipped-in photographic frontis. port. by Ansel Adams, numerous inserted specimens & facsimiles, 2 tipped-in photographs, & text illus. Large folio, orig. morocco-backed cloth, spine gilt. Austin: W. Thomas Taylor, 1983. \$750.00

Limited to 325 numbered copies, printed on Barcham Green handmade paper in Centaur, Arrighi, and Palatino types. Designed by Adrian Wilson and printed at the Press in Tuscany Alley.

This extremely handsome bibliography fully describes 196 books designed and/or printed by Adrian Wilson. The author's "autobiographical interludes" interspersed throughout neatly link the bibliographical entries one to another and provide a colorful background to the discussion of the books.

Fine copy.

With the Rare Supplement

98. [WORCESTER, Edward Somerset, Second Marquis of]. *A Century of the Names and Scantlings of such Inventions, As at Present I can call to mind to have tried and perfected, which (my former Notes being lost) I have, at the instance of a powerful Friend, endeavoured now in the year 1655. to set these down in such a way as may sufficiently instruct me to put any of them in practice.* Woodcut royal arms on verso of first leaf of supplement. 10 p.l., 72 pp., [7] leaves (first & last blank); 1 leaf, 34 pp. 12mo, early 19th cent. russia (rebacked & with some wear). London: J. Grismond, 1663.

\$6500.00

First edition and rare, especially with the supplement which is not present in almost all copies. Among the remarkable projects in this repository of contemporary inventions are a calculating machine, a universal language, repeating firearms, time bombs for use against enemy ships, a mechanical flying bird, a device for enabling a man to fly, burglar-proof locks, and eight different mechanical alphabets. The book is most famous for Worcester's description of his famous "water-commanding engine," an apparatus for raising water by means of steam which, it has been claimed, gives him the right to be credited with the invention of the steam engine.

Very good copy, lacking the first blank. The Norman copy lacked the supplement. Ex Bibliotheca Mechanica.

• Roberts & Trent, *Bibliotheca Mechanica*, pp. 360-61—"Rare original edition . . . a fascinating and uncommon work . . . The text consisting of short accounts or outlines of ideas of one hundred inventions claimed by the author . . . The present copy is complete with the thirty-four page section in which he gives a [further] description of his water-commanding engine." Wing W-3532.

Balconies & Locks

99. ZIPPER, Jacob. *Theoretisch-praktische Anweisung zu Schlosserarbeiten nebst den dazu gehörigen Zeichnungen und Rissen. . . Neue verbesserte Auflage.* Engraved vignettes on titles & 48 finely engraved plates. 2 p.l., 24 pp.; 2 p.l., 24 pp. Tall folio (400 x 252 mm.), cont. sheep-backed marbled boards (extremities a bit worn), flat spine gilt, orange leather lettering piece on spine. Augsburg & Leipzig: Jenisch & Stage, n.d. [but 1822]. \$5500.00

Second and best edition (1st ed.: 1801) of this comprehensive survey of — in the first part — highly elaborate designs for stair-rails, gates, balconies, lanterns, and garden fencing. The second part is concerned with machine-tools and very complicated locks and keys. For each plate showing the overall designs, there are other plates detailing the decorative components.

This is the best German book of the period on these subjects; the first edition

of 1801 was concerned only with locks and keys.

Fine copy and very rare with OCLC locating no copy in the U.S.

• Berlin Kat. 1318–(1st ed. of 1801).

100. (ZOOLOGY). *An Introduction to the Literature of Vertebrate Zoology based Chiefly on the Titles in the Blacker Library of Zoology, The Emma Shearer Wood Library of Ornithology, the Bibliotheca Osleriana, and other Libraries of McGill University, Montreal.* Compiled by Casey A. Wood. Frontis. plate in color. 643 pp. Large 4to, orig. cloth. London: Oxford Univ. Press, 1931.
\$300.00

An invaluable work.