

THE FLOWERS

OF THE
SKY



&
the Magic of Earth

WEBER RARE BOOKS



RECENT ACQUISITIONS RELATING TO

***MICROSCOPY
& ASTRONOMY***

THE LURE OF THE MICROSCOPE
& OTHER SCIENTIFIC INSTRUMENTS

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CATALOGUE 219

WEBER RARE BOOKS

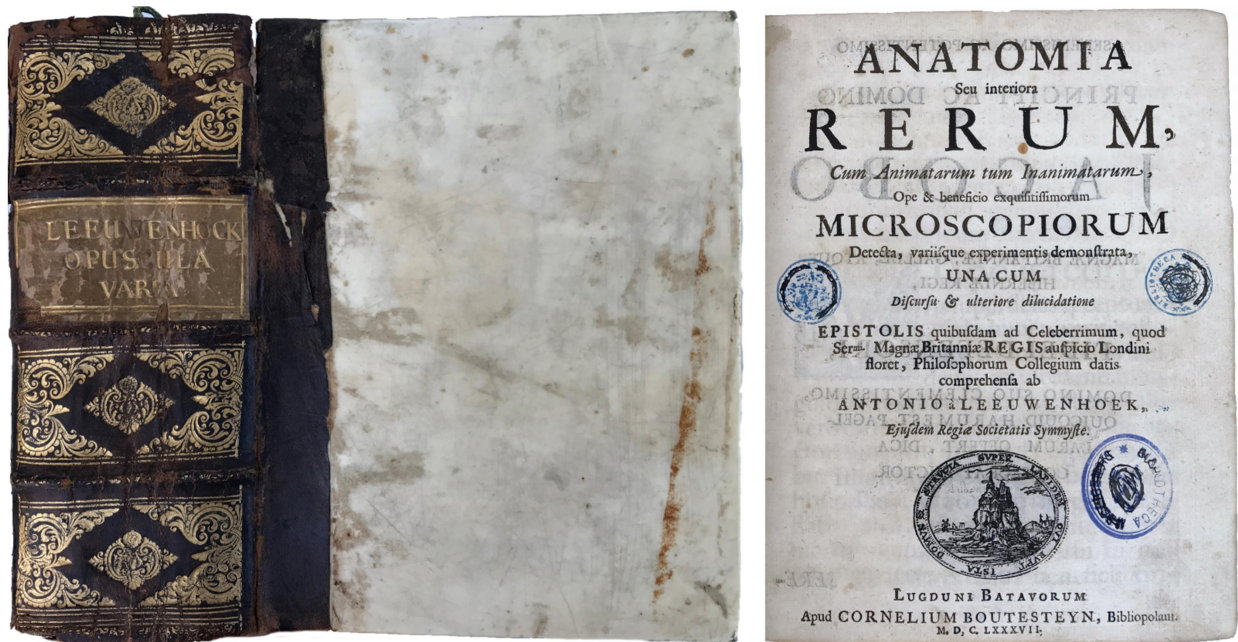
MORE PHOTOGRAPHS OF BOOK STOCK AVAILABLE ON-LINE



112. **LEEUVENHOEK, Antoni van (1632-1723).** [FOUR WORKS BOUND TOGETHER]: [I] *Anatomia Seu interiora Rerum, Cum Animatarum tum Inanimatarum, ope & beneficio exquisitissimorum Microscopiorum Detecta variisque experimentis demonstrate, una cum discursu & ulteriore dilucidatione Epistolis quibusdam ad Celeberrimum, quod ser[enissi]mi Magnae Britanniae Regis auspicio Londini floret, Philosophorum Collegium, datis comprehensa . . .* 1687; *De Vivis animalculis in lactibus seu semine masculino piscium . . .* [issued continuous with previous title] [with II]: *Continuatio epistolarum, datarum ad longe Celeberrimam Regiam Societatem Londinensem.* 1689; [with III]: *Arcana Naturae Detecta . . . Delphis Batavorum, Apud Henricum a Krooneveld, 1695;* [with IV]: *Continuatio Arcanorum Naturae Detectorum . . . Delphis Batavorum, Apud Henricum a Kroonevelt, 1697].* Lugduni Batavorum: ~ Cornelium Boutesteyn, 1687. ¶ 5 works in one volume. Sm. 4to. [ii], [iv], 3-78; 258; [viii], 124; [viii], 568, [xiv]; [ii], 192, [viii] pp. Page numbers 231-232 repeated in pagination [first section]. Numerous engraved plates (many folding); occasional light foxing. Original vellum backed with quarter calf with elaborate gilt-stamped spine; some wear to joints. [Spine title: "LEEUVENHOEK - OPUSCULA VARIA"]. Bookplates of Pierre Lambert and Pierre Amalric; three rubber-stamps on title (scribbled), final leaf with two additional stamps (not scribbled) Bibliotheca Mellicensis. [SS13111]

\$ 6,500

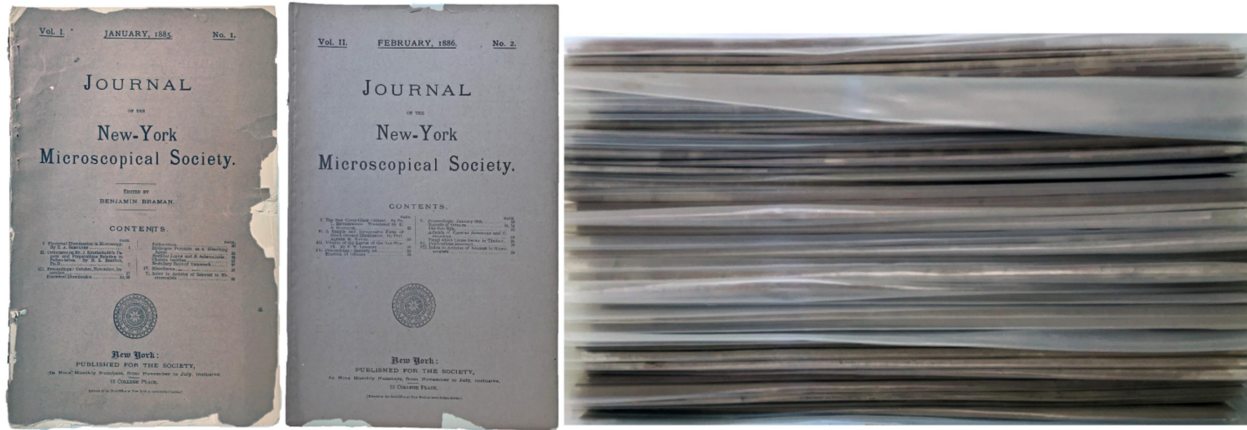
First or early collected printings of Leeuwenhoek's letters: THE FIRST SYSTEMATIC USE OF THE MICROSCOPE. "To Antonio van Leeuwenhoek, of Delft, belongs the high merit of having been the first to use the microscope systematically and having brought the construction of the simple microscope in his own hands to a high degree of perfection... Self-taught and never having attended a university, ignorant of Latin and Greek and of the classical texts, he became one of the greatest and most expert microscopists, thanks to the sagacity of his observations and the perfection of his technique" - Arturo Castiglioni, pp. 528-9).



PROVENANCE: Pierre Lambert (1899-1969) Parisian bookseller [Catalogue de la librairie Pierre Lambert, Livres anciens et quelques livres modernes, Mars 1927]; collection of Joris-Karl Huysmans bequeathed to the Bibliothèque de l'Arsenal. He was President de la Société J.-K. Huysmans 1967 - 1969. See: J. Letheve, "The donation Pierre Lambert in the Arsenal Library" within *Bulletin bibliophile*, 1972, pp. 184-188; Andre Billy, "Pierre Lambert," *Bulletin de la Société J.-K. Huysmans*, 1969-1970. From the library of Alan de Haas.

☞ Clay & Court, *The History of the Microscope*, pp. 32-36, 41; Dobell 23, 24, 25, 26; Krivatsy, NLM 6782, 6783, 6787, 6788; LeFanu-Lilly Library, *Notable Medical Books* 97 [*Arcana Naturae Detecta*]; Haskell F. Norman 1319, 1317, 1321 - see 1320 note for *Anatomia seu interior rerum*, 1687 "greatly expanded second edition"; Osler 1020, 1021; Waller 10876, 10882, 10877, 10880; Wellcome III, See: Garrison and Morton 67 and

Grolier One Hundred Books Famous in Medicine 37 for an historical inventory of the Leeuwenhoek letter sequence.

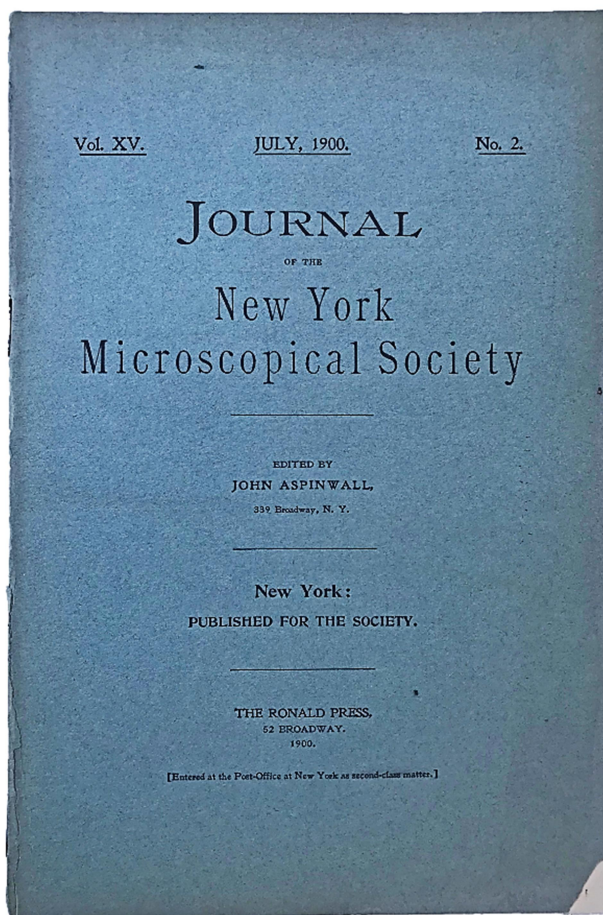
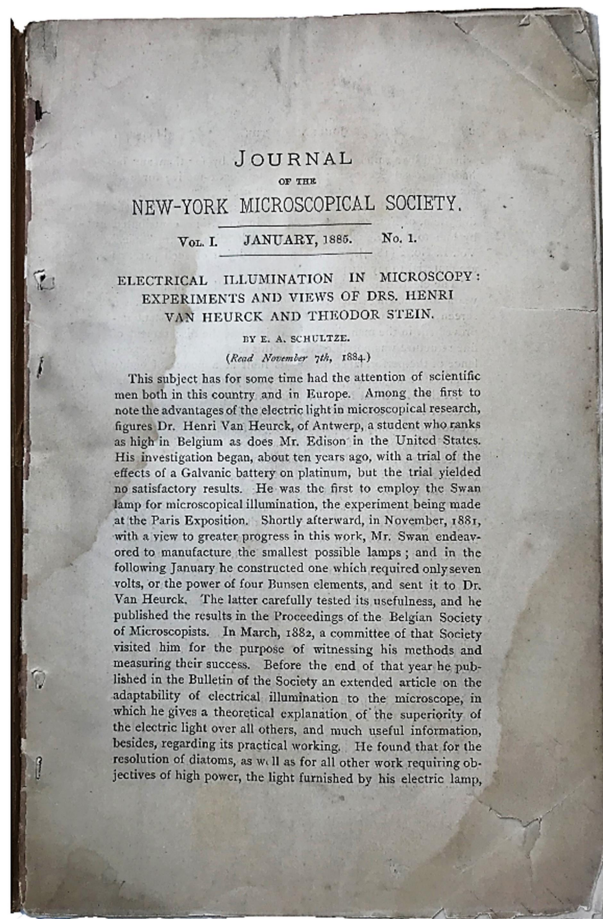


113. **New York Microscopical Society.** *Journal of the New York Microscopical Society.* Edited by Benjamin Braman; [or] J. L. Zabriskie [or] John Aspinwall. New York: New York Microscopical Society, 1885-1900. ¶ 44 issues. 8vo. Plates and figures throughout. Original printed wrappers (1 issue is lacking covers, a couple of issues suffer from brittle paper). Very good.

\$ 325

44 issues from the founding of the NYMS. The New York Microscopical Society, founded in 1877, is still on-going (now relocated to Clifton, NJ). The cornerstone of its membership were people from the American Museum of Natural History. “From the beginning the members were a friendly mix of scientists and amateurs. The common purpose of both was the promotion of all phases of microscopy, theoretical and practical, for professional reasons or for pleasure.” – NYMS.

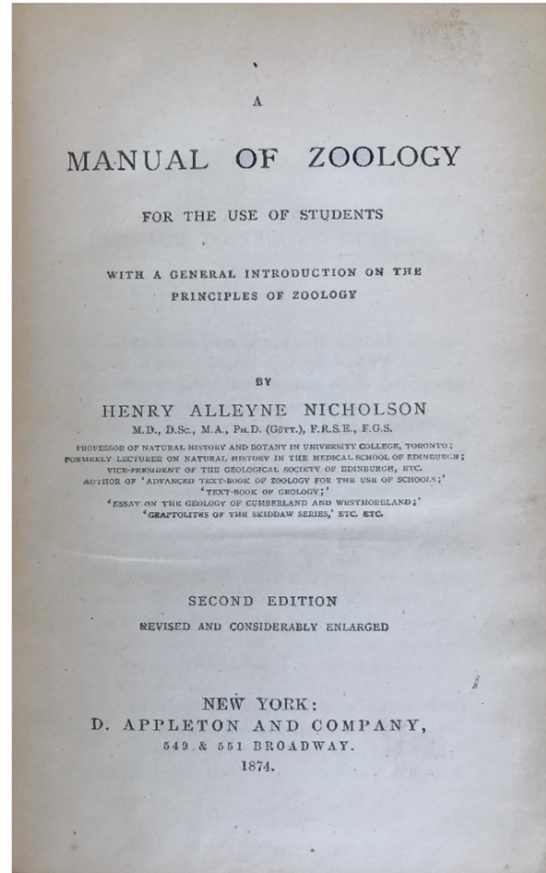
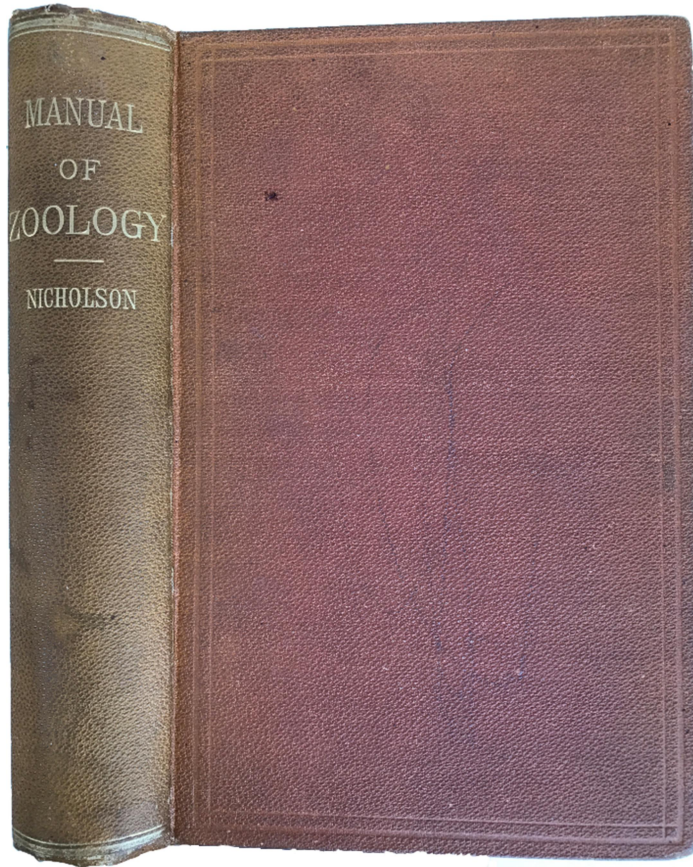
Inventory: 1885: vol. I, nos. 1-9; 1886: vol. II, nos. 2-4, 6-9, 92; 1887: vol. III, nos. 3-4; 1888: vol. IV, nos. 3-4; 1889: vol. V, nos. 1-3; 1890: vol. VI, no. 2-3; 1891: vol. VII, nos. 1, 3-4; 1892: vol. VIII, nos. 1-4; 1893: vol. IX, nos. 1-4; 1894: vol. X, nos. 1-4; 1895: vol. XI, no. 1; 1900: vol. XV, no. 2.



114. **New York Microscopical Society.** Journal of the New York Microscopical Society. Edited by Benjamin Braman; [or] J. L. Zabriskie [or] John Aspinwall. New York: New York Microscopical Society, 1885-1900. ¶ 19 issues. 8vo. Plates and figures throughout. Original printed wrappers (1 issue is lacking covers, a couple of issues suffer from brittle paper). Very good.

\$ 55

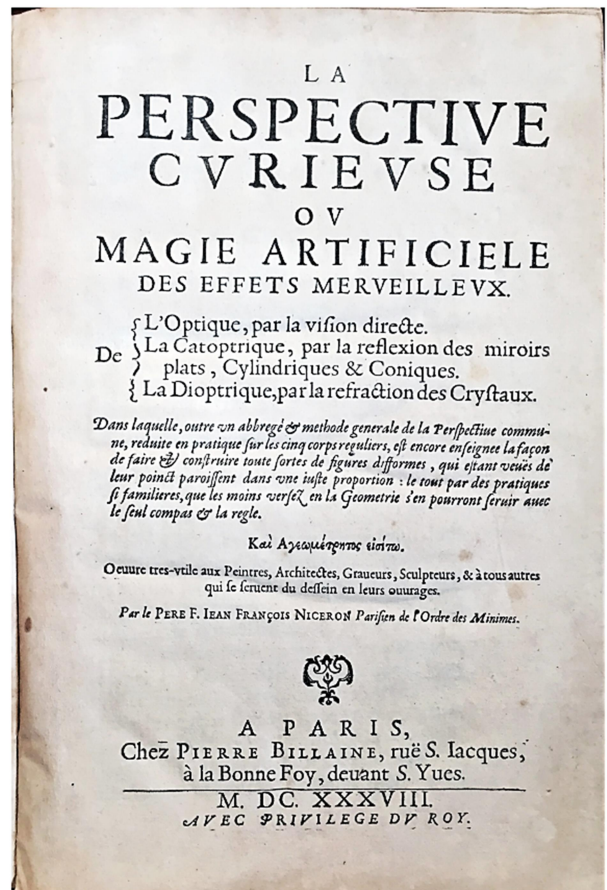
A more scattered group, all duplicates form the above list.



115. **NICHOLSON, Henry Alleyne.** *A Manual of Zoology for the use of students. With a general introduction on the principles of zoology. Second edition, revised and considerably enlarged.* New York: D. Appleton, 1874. ¶ Small 8vo. xx, [2], 673 pp. 243 figures, index. Original brick-reddish-brown blind- and gilt-stamped cloth. Ownership signature of M. H. Chamberlin, Normal [Illinois], 1875. Very scarce.

\$ 47

Provenance: Dr. McKendree Hypes Chamberlin, LL., D. (1838-1914), a native of Lebanon, Illinois, was the child of employees of McKendree College, attended there. He served as President of McKendree College (Lebanon, IL) [now McKendree University] from 1894-1908. He was a member of the Board of Trustees of the Illinois State Historical Library. He and his wife, Helen Dana Chamberlin, retired to Los Angeles, California. His son, Professor Clifford D. Chamberlin, wrote a biography of his father.



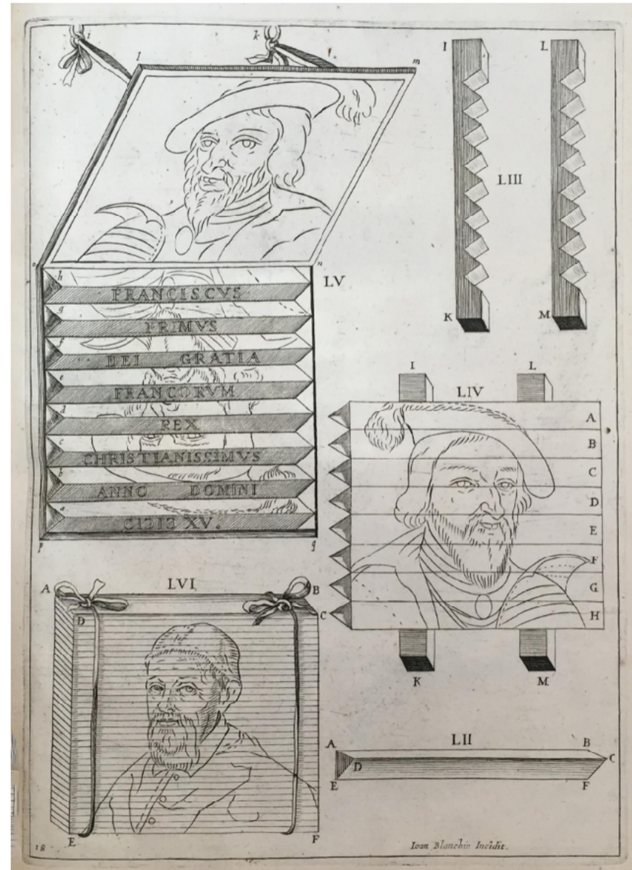
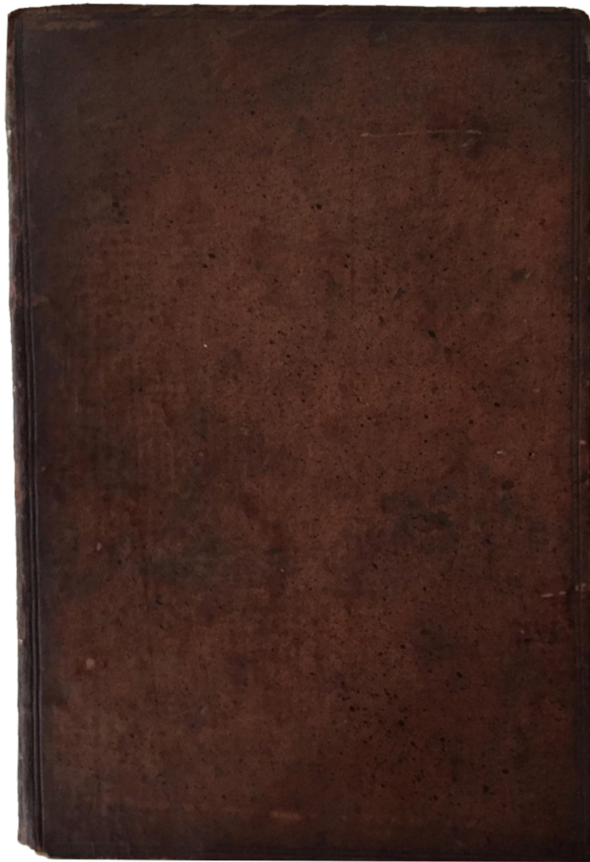
"Artificial Magic"
Prominent Work on Perspective & Optics
Including Optical Illusions & Image projection

116. **NICERON, Jean Francois** (1613-1646). *La Perspective Curieuse ou Magie Artificiele des effets Merveilleux: de l'optique, par la vision directe, la catoptrique, par la reflexion des miroirs plats, cylindriques & coniques, la dioptrique, par la refraction des cristaux . . . Oeuvre tres-utile aux peintres, architectes, graveurs, sculpteurs.* Paris: Chez Pierre Billaine, 1638. ¶ 6to. [xxiv], 120, [2] pp. Engraved frontis. (by Pierre Daret), 25 engraved copper plates (1 double-page). Original full blind-stamped calf, spine with gilt rules and title; spine neatly replaced, extremities rubbed. Bookplates of Newbattle Abbey Library, [First] Earl of Ancram [Sir Robert Kerr (c. 1578–1654)] and the Honorable William Marquiss of Lothian (General William John Kerr, 5th Marquess of Lothian, 1737-1815). Fine.
- ANAMORPHOSES AND THE THEORY OF PERSPECTIVE. SS13508

\$ 12,500

First edition, with a fine provenance, of Niceron's important treatise on perspective, geometrical optics, and anamorphic projection, which gains added significance in the

history of science for containing (in Book IV) "perhaps the first published reference to Descartes' derivation of the law of refraction (1638) and thus gains some historical significance" – *DSB*.

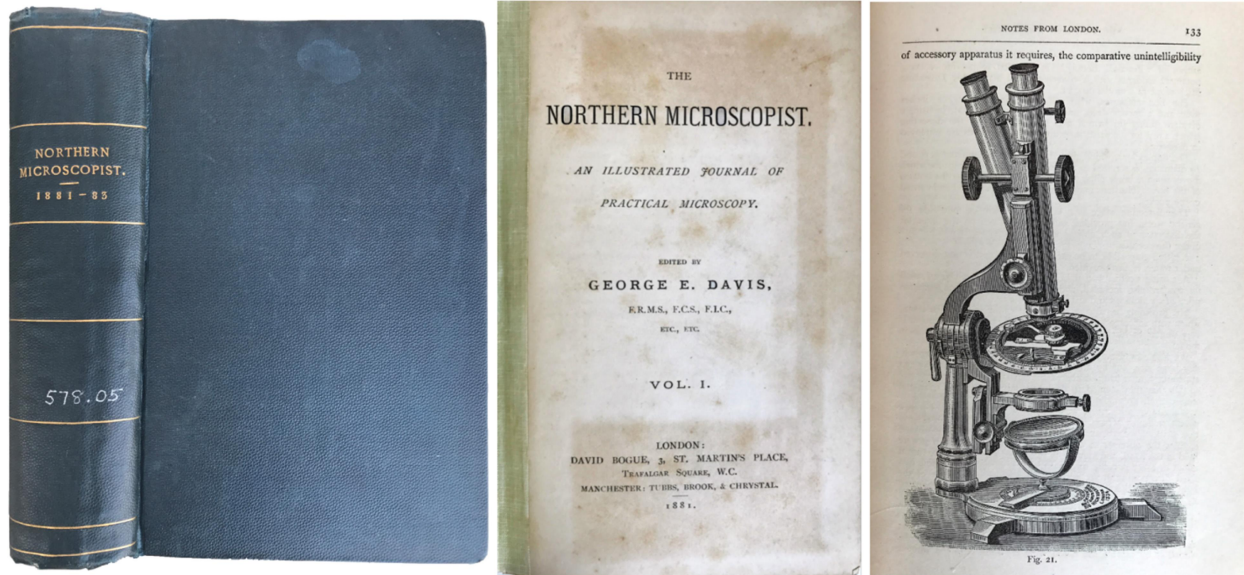


The work is famous for its study of the application of illusion to optical science: "The classic phase of anamorphosis, during which it came to relate vitally to a series of scientific and theological concerns, occurred in France and Rome in the 1630s and 1640s. The theorist at the centre of the Paris-Rome developments was Jean-Francois Nicéron" – Kemp.

Provenance: Sir Robert Kerr (c. 1578–1654) was a Scottish nobleman. His son Charles inherited the title, though ultimately the title merged with that of Lothian, thus the second bookplate.

∞ Martin Kemp, *The Science of Art: Optical Themes in Western Art from Brunelleschi to Seurat*, Yale University Press, 1992; Vagnetti, 391-393; *DSB* X, p. 103; Berlin Katalog 4713. See: Christie's sale 3534.

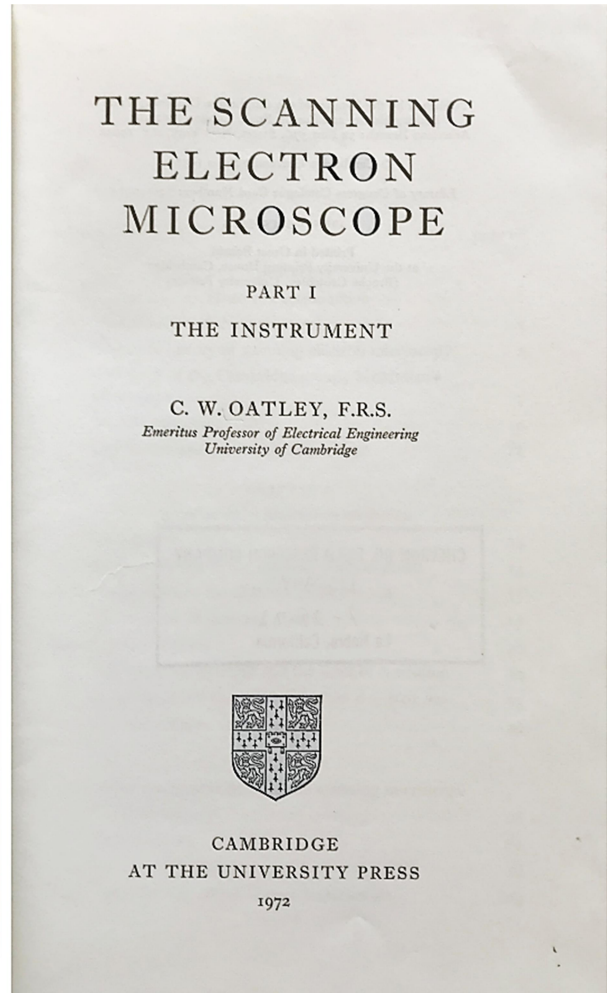
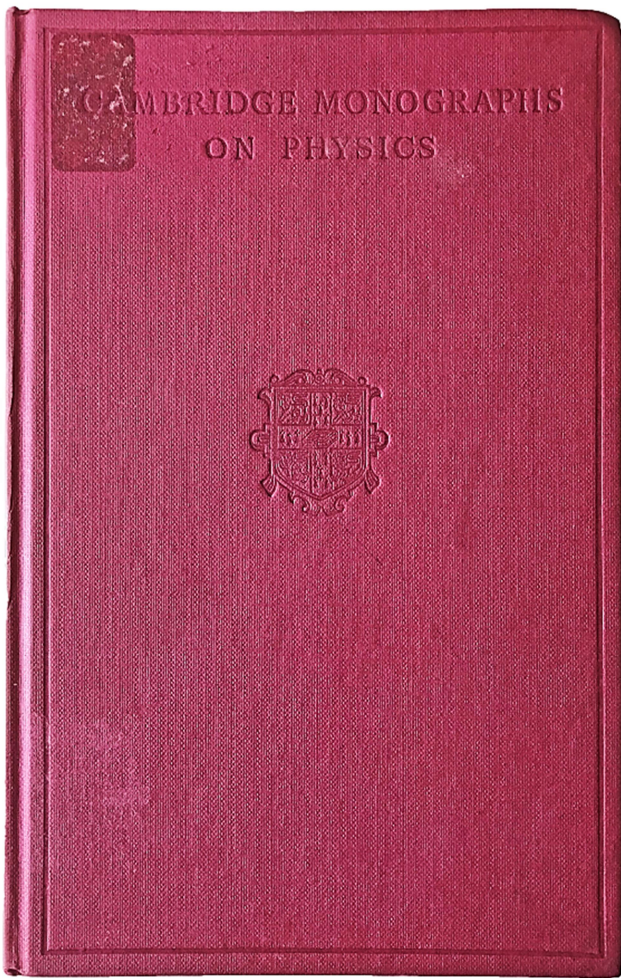
See: Ivan Moscovich, *The Magic Cylinder Book*, Tarquin Publications; Martin Gardner, "Anamorphic art", *Scientific American*, vol. 232, no 1, pp. 110-116, January 1975; Richard Gregory, *Mirrors in Mind*, W.H. Freeman, New York, 1996; Jonathan Miller, *On Reflection*, National Gallery Publications, London, 1998; Ernst Gombrich, *Art and Illusion*, Phaidon Press, Oxford, 1977.



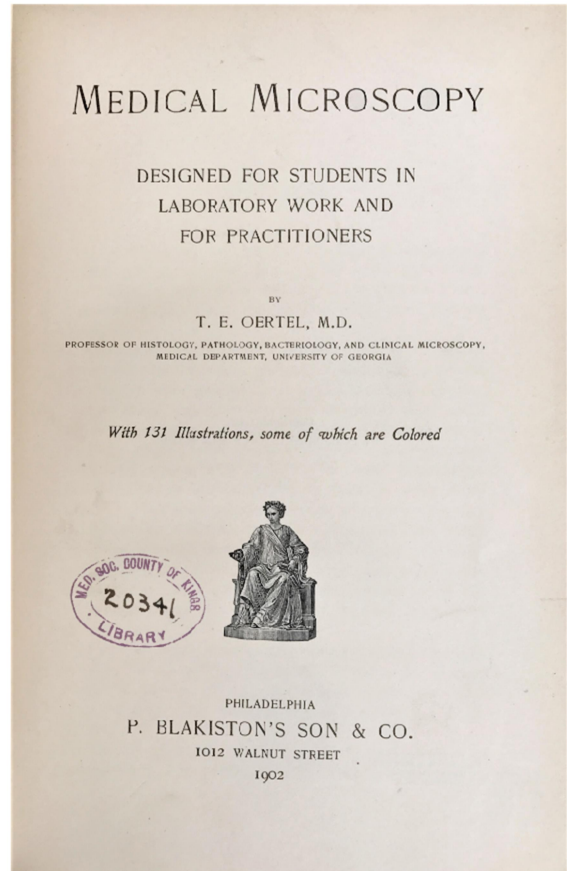
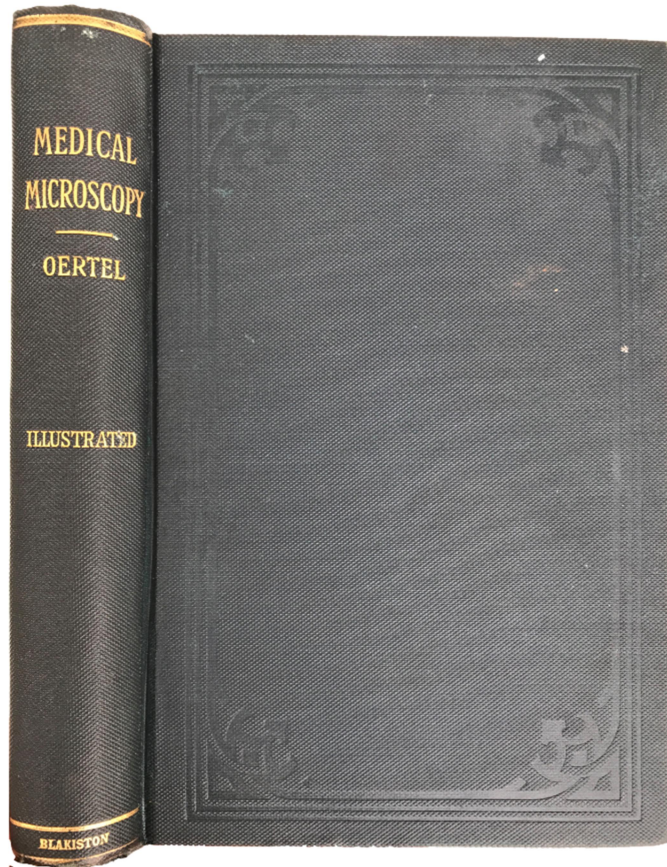
117. **The Northern Microscopist; George E. DAVIS** (editor). *The Northern Microscopist; an illustrated journal of practical microscopy*. London: David Bogue, 1881-83. ¶ Series: Vol. 1, no. 5, May, 1881-May 1883, vol. II, no. 29. 8vo. [vi], [101]-303; 359; [vi], 156 pp. Plates, figures, indexes. Early full gilt-stamped dark green cloth. Ex-library bookplate. Very good.

\$ 200

Many fine articles contained within. Includes one original micro-photographic plate [facing p. 236].



118. **OATLEY, C. W.** *The scanning electron microscope*. Part 1: the instrument. Cambridge: Cambridge University Press, 1972. ¶ Series: Cambridge Monographs on Physics, 1972. 223 x 142 mm. viii, 194 pp. Figs. and tables, bibliog., index. Blind-stamped red cloth, gilt spine. Ex library typed label on top cover partially removed, labels removed from front paste-down, rubber stamp. Good. S2422 \$ 20



119. **OERTEL, Theodore E.** *Medical Microscopy; designed for students in laboratory work and for practitioners.* Philadelphia: P. Blakiston's Son, 1902. ¶ 8vo. xii, 17-362, 31, [1] pp. 131 illustrations (some colored: p. 176, 184), index, ads. Original full dark green blind and gilt-stamped cloth; rear joint mended. Bookplate of the Brooklyn Medical Journal. Very good. \$ 45

Morphine in the preparation of tincture of opium ; Supposed loss of ——. E. H. Farr and R. Wright. Brit. Pharm. Conf. Report, 1911, 1—2. Pharm. J., 1911, 87, 158—160.

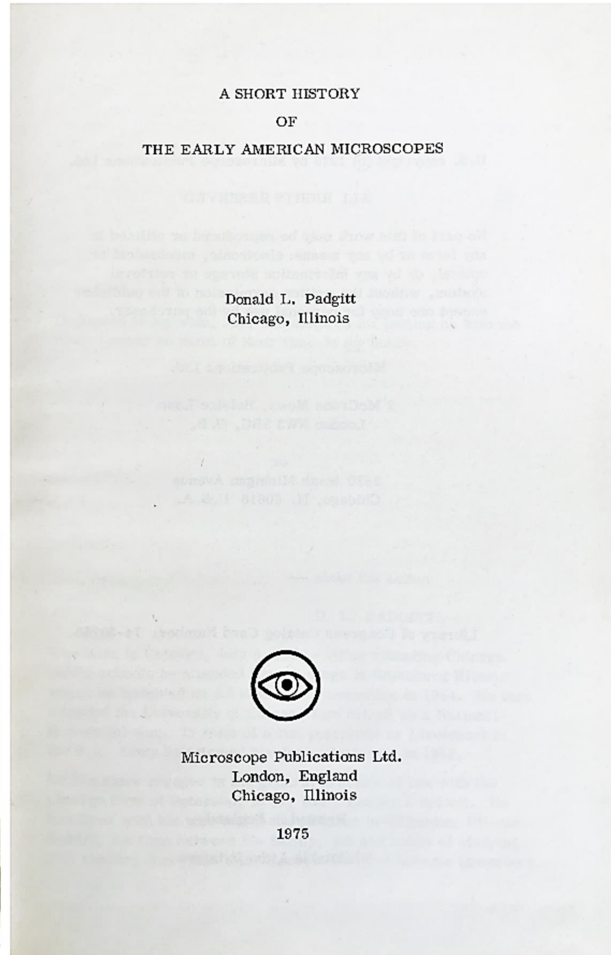
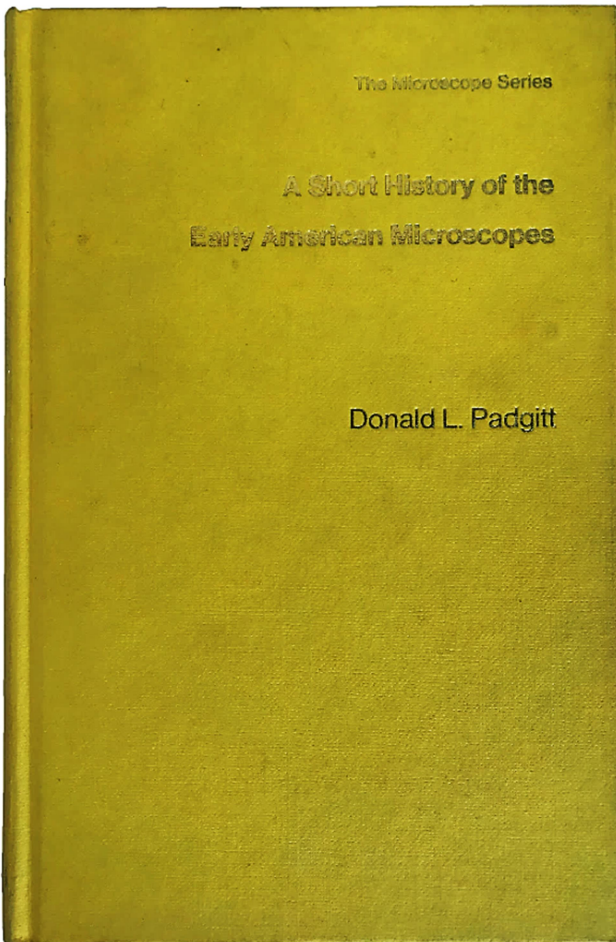
USING the official assay processes there is always a loss of opium in preparing the tinctures. This was proved by assaying the opium and then determining the morphine in the tincture and the marc. The average loss was 4.78 per cent. of the total. Changes were made by altering the volumes of the filtrates measured in the assay process, and in the extent of dilution of the mixture of the tincture liquors after admixture with lime. The loss was then reduced, on the whole, to 2.4 per cent. of the total. The loss is probably due to the occlusion of the alkaloid, making it practically impossible to completely extract it by water or alcohol.—F. SHDN.

Morphine in opium and opium preparations ; Determination of ——. G. Frerichs and E. Mannheim. Apoth.-Zeit., 1911, 26, 613—615.

120. [Opium & Morphine] Society of Chemical Industry. [3 announcements]
[1]: "Supposed loss of Morphine in the preparation of tincture of opium." [2]:
"Determination of Morphine in opium and opium preparations." [3]:
"Determination of Morphine and its Preparations." [p. 1029]. London: Society
of Chemical Industry, 1911. ¶ Series: Journal of the Society of Chemical
Industry, no. 16, vol. XXX, August 31, 1911. 4to. xii, 995-1036 pp. Figs.
Original printed wrappers; spine torn, waterstained. Poor.

\$ 5

Complete issue of the Journal of the Society of Chemical Industry.

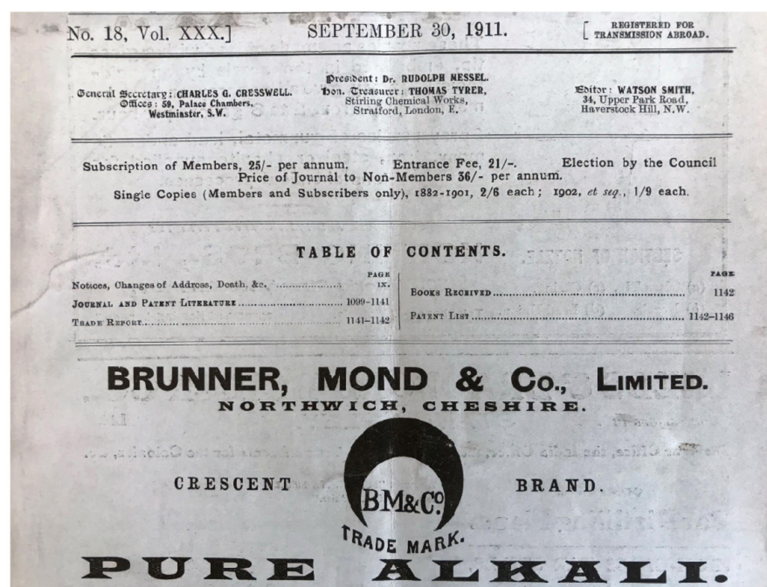
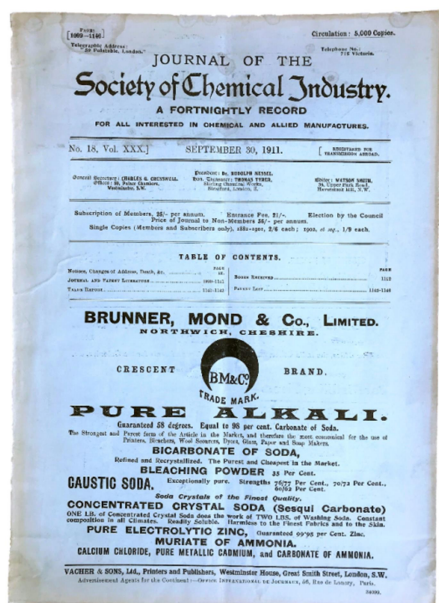
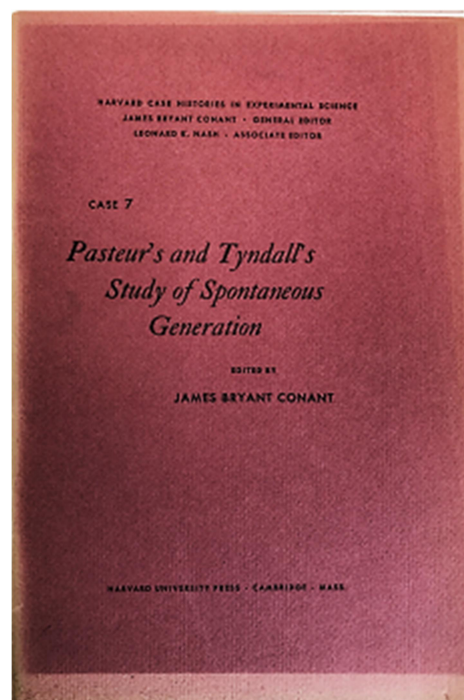


121. **PADGITT, Donald L.** *A Short History of the Early American Microscopes.*
Chicago: Microscope Pubs., 1975. ¶ Small 8vo. xi, 147, [1] pp. 69 figures, index.
Original yellow gilt-stamped cloth. Fine copy.

\$ 60

Contents: The Microscope in American before 1840; Charles A Spencer and his Successors; The Grunow Brothers of New Haven; Joseph Zentmayer of Philadelphia; Robert B. Tolles and the Boston Optical Works; Chicago Makers: Walter H. Bulloch – Dr. Lyman D. McIntosh; Bausch and Lomb, Inc. of Rochester; Acme Optical Works of Lancaster PA and James W. Queen of Philadelphia; Other American makers, designers, dealers: Benjamin F. Allen, J. B. Allen, Jesse S. Cheyney & Co., Charles X. Dalton, John Ellis, Charles Fasoldt, John Green, Ezra H. Griffith, Ernst Gundlach, Laban Heath, William K. Kidder, C. B. Kleine, James H. Logan, McAllister & Brother & Thomas H. McAllister, Miller Brothers, Eusebius J. Molera & John C. Cebrian, John Phin, Benjamin Pike, Charles Potter, James Prentice, C. B. Richards, L. Schrauer, August Stendicke, C. M. Vorce, George Wale, William Wales, Yawman & Erbe.

122. [PASTEUR] CONANT, James Bryant, editor. *Pasteur's and Tyndall's study of spontaneous generation*. Cambridge: Harvard University Press, 1953. ¶ Series: *Harvard Case Histories in Experimental Science*, Case 7. First printing. 8vo. [ii], 61 pp. Figs. Printed wrappers; fading to cover. Very good. \$ 10



123. [Patents] *Journal of the Society of Chemical Industry*. Journal and Patent Literature I. General Plant; machinery; IIa. – Fuel; gas; mineral oils and waxes. IIb: - Destructive Distillation; Heating; Lighting. III. – Tar and Tar Products. IV. – Colouring Matters and Dyes. V. – Fibres; Textiles; Cellulose; Paper. VI. – Bleaching; Dyeing; Printing; Finishing. VII. – Acids; Alkalis; Salts; Non-metallic Elements. VIII. – Glass; Ceramics. IX. – Building Materials. X. – Metals; Metallurgy, including electro-metallurgy. XI. – Electro-Chemistry. XII. – Fats;

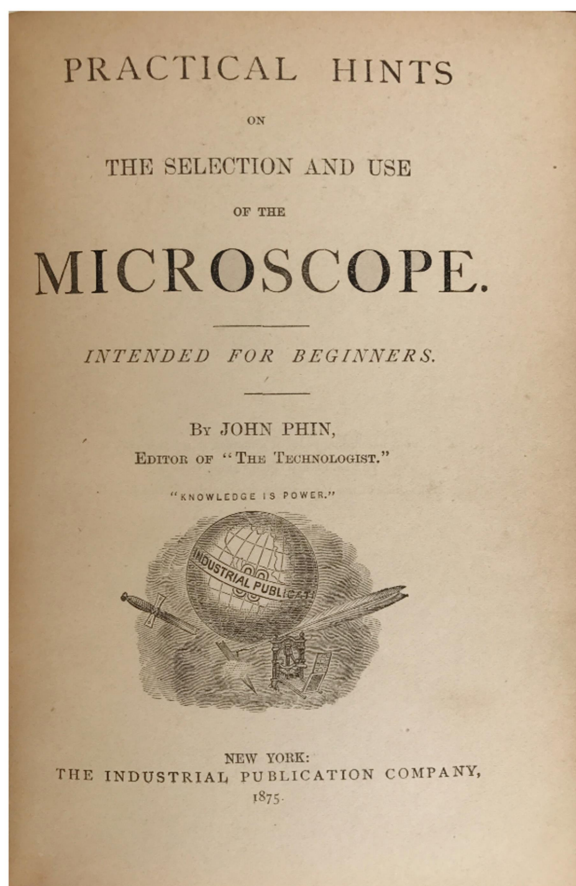
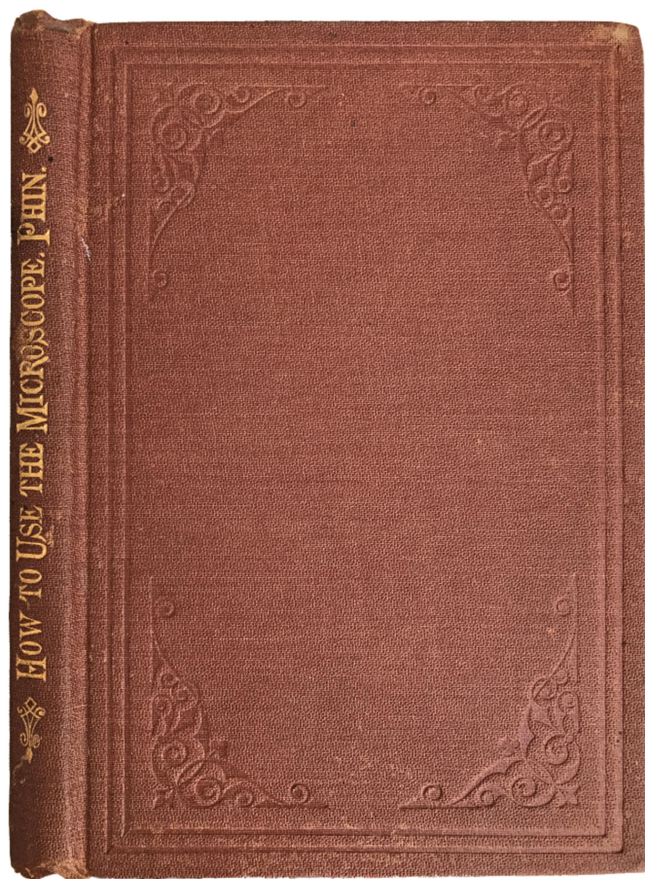
Oils; Waxes. XIII. – Paints; Pigments; Varnishes; Resins. XIV. – India-Rubber; Gutta-Percha. XV. – Leather; Bone; Horn; Glue. XVI. – Soils; Fertilisers. XVII. – Sugars; Starches; Gums. XVIII. – Fermentation Industries. XIXa. – Foods. XIXb. – Water Purification; Sanitation. XX. – Organic Products; medicinal Substances; Essentials Oils. XXI. – Photographic Materials and Processes. XXII. – Explosives; Matches. XXIII. – Analytical Processes. XXIV. – Miscellaneous Abstracts. London: Society of Chemical Industry, 1911. ¶ Series: Journal of the Society of Chemical Industry, no. 18, vol. XXX, September 30, 1911. 4to. pp. 1099-1146, xii. Figs. Original printed wrappers; creased. Very good.

\$ 20

Complete issue of the Journal of the Society of Chemical Industry.



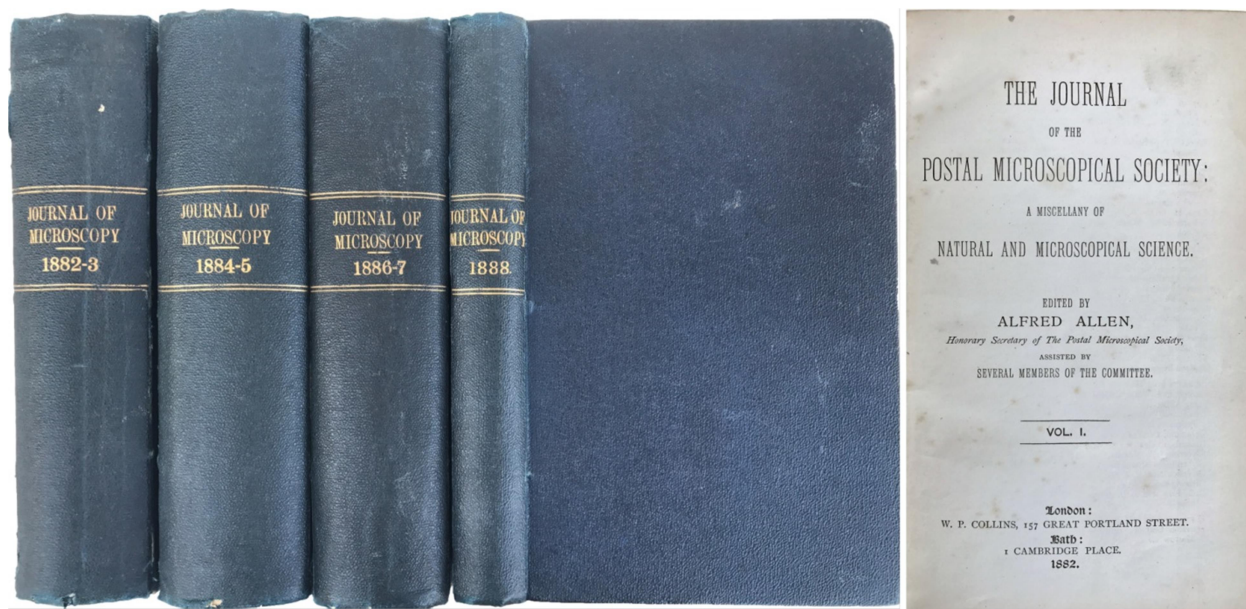
124. [Philately] **Royal Microscopical Society**. 4 British Postage Stamps. “Microscopes: Royal Mail Mint Stamps. J. L. Bawerbank, ‘God Bless the Microscope – Let us have a Society!’ London: Royal Microscopical Society; British Mail, 1989. ¶ 4 stamps [Royal Mint Stamps], British issue, mounted in folder from the Royal Microscopical Society. \$ 15



125. **PHIN, John** (1830/2-1913). *Practical Hints on the Selected and Use of the Microscope. Intended for beginners.* New York: The Industrial Publication, 1875. ¶ 12mo. 131 pp. 19 figures. Original blind and gilt-stamped light brown cloth. Fine copy. Rare.

\$ 75

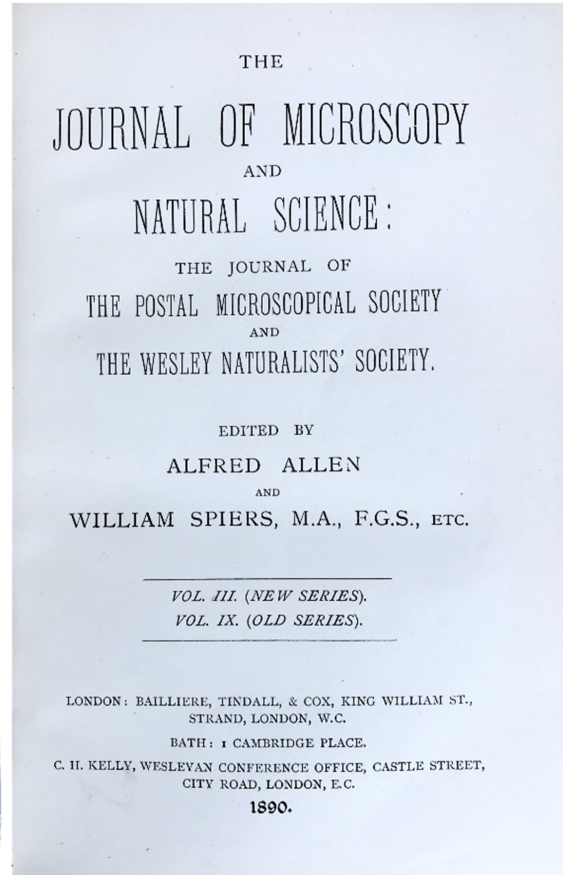
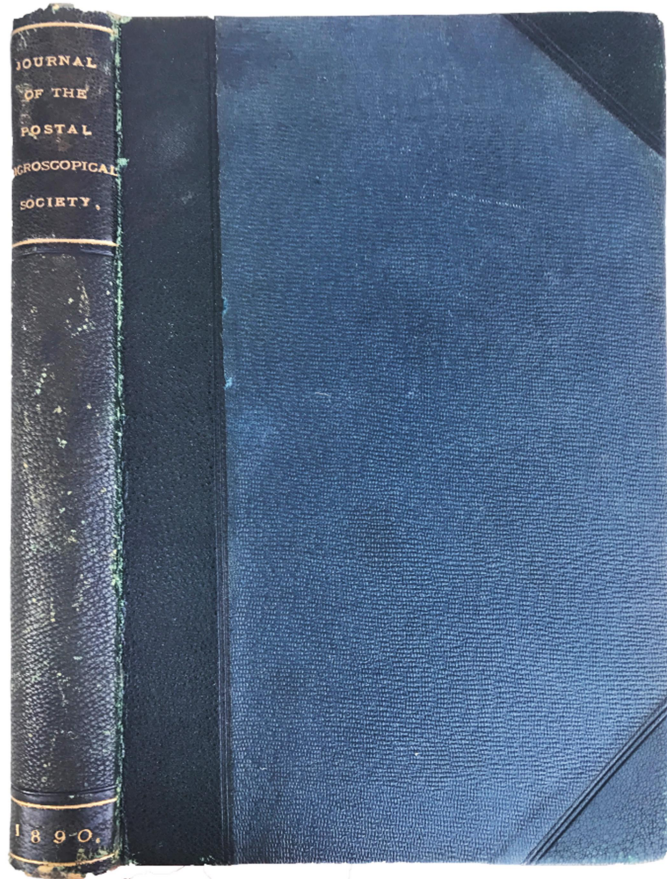
Phin was the editor of the “American Journal of Microscopy.”



126. **Postal Microscopical Society; Alfred ALLEN** (editor). *The Journal of the Postal Microscopical Society: a miscellany of natural and microscopical science*. London & Bath: W. P. Collins; 1882-88, 1890. ¶ 8 volumes in 5. 8vo. [1882-3:] iv, 207, [1], 17, [2], ii, 264; [1884-5:] iv, 271, iv, 296; [[1886-7:] iv, 264, iv, 266; [1888:] iv, 279; [1890:] iv, 300 pp. Profusely illustrated, indexes; 1882 vol. with cellophane tape applied to gutter at pp. 58/59. The first four volumes are bound uniformly in full dark green gilt-stamped cloth; the fifth volume is bound in dark green gilt-stamped half morocco and cloth, top edge gilt; rubbed. Ownership signature of [1] J. W. Measures; [5] rubber-stamp of Ron Neumeyer. Generally very good (note cellophane tape).

\$ 350

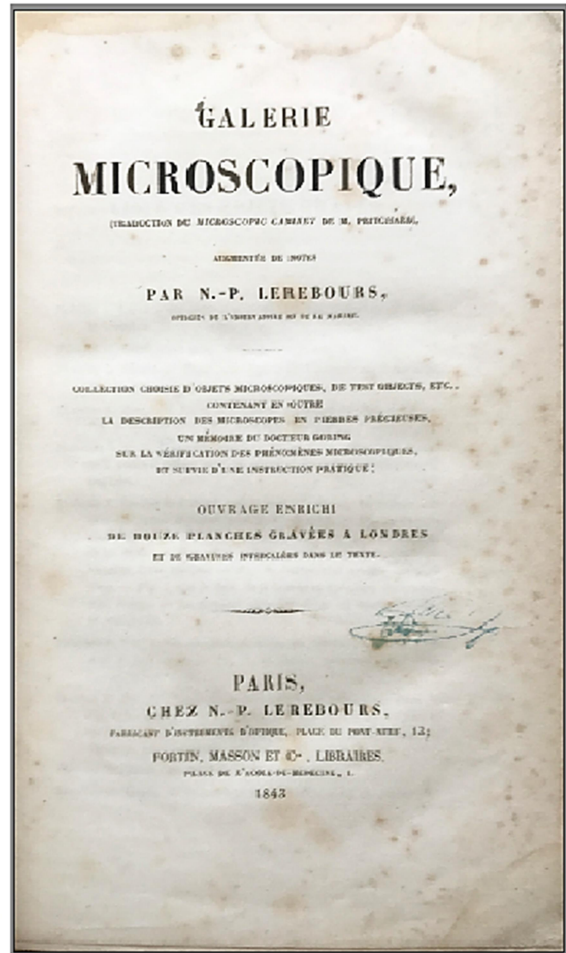
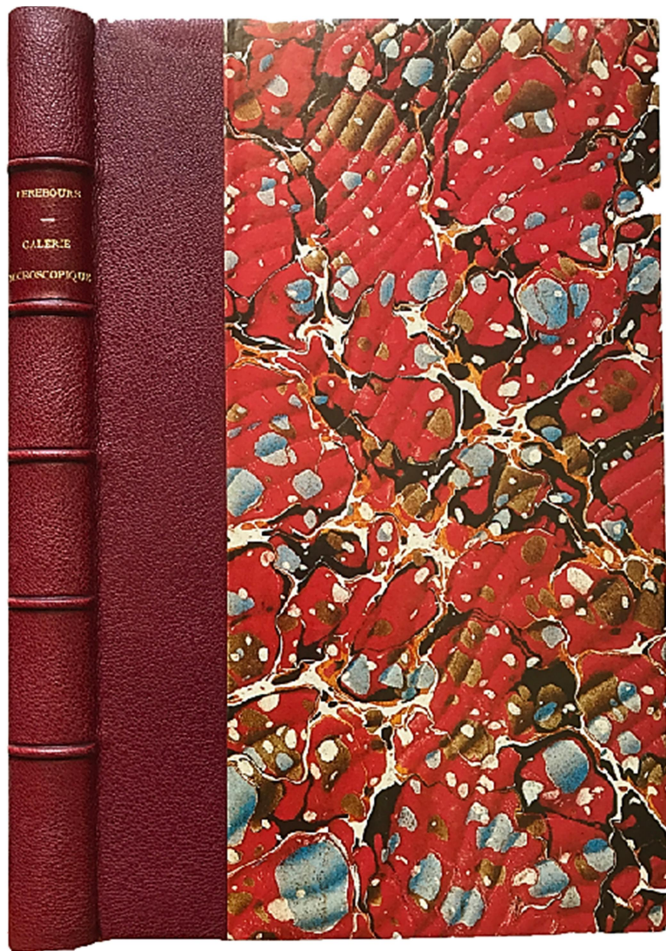
Selected topics in vol. I: Adulteration of Coffee and the Microscope; Barker on Photo-Micrography; Biblioteca Micrographica; Bleaching fluid for Beetles; Blow-Fly, Teeth of; Cat's Tongue, section of; Chrysolite; Cotton Seeds; Daphnia; Dark-ground illumination; Diatoms; etc.



Selected papers: J. H. Kidder, An examination of the external air of Washington – J. B. Jeaffreson, Hydroza and Medusae – James A. Foster, Diamonds and their history – Malcolm Poignand, The Microscope in Palaeontology – J. G. Greenfell, On some New Infusoria from Bristol – Dr. Lediard, Salmon Disease – V. R. Perkins, Stylops – V. A. Latham, The Microscope and how to use it – A. Hammond, Chironomus Prasinus – George Norman, Cystopus, or White Rust – W. G. Wheatcroft, The Structure of Flowers with reference to Insect Aid in their fertilization – H. W. S. Worsley-Benison, Charles Darwin.

Provenance: J. W. Measures, not here, but later wrote a paper, “Lenses made by Zeiss for low-power photo-micrography...” Journal of the Royal Microscopical Society, 1898.





127. [PRITCHARD, Andrew] LEREBOURS, Noel Marie Paymal. *Galerie Microscopique*, (traduction du *Microscopic Cabinet* de M. Pritchard), augmentée de notes. Paris: N.-P. Lerebours, 1843. ¶ 8vo. VIII, 224 pp. Half-title, numerous figs., 12 plates drawn by C.R. Goring (1792-1840) and engraved by W. Kelsall (10 of which are colored, 2 folding), numerous figures; spotted and/or foxed, with marginal damp-stains. Handsome modern quarter gilt-stamped crimson morocco, marbled boards. Ownership signature of title obscured; old rubber-stamp "Bibliothèque Populaire" (preface, p.85). Very good. SS13178

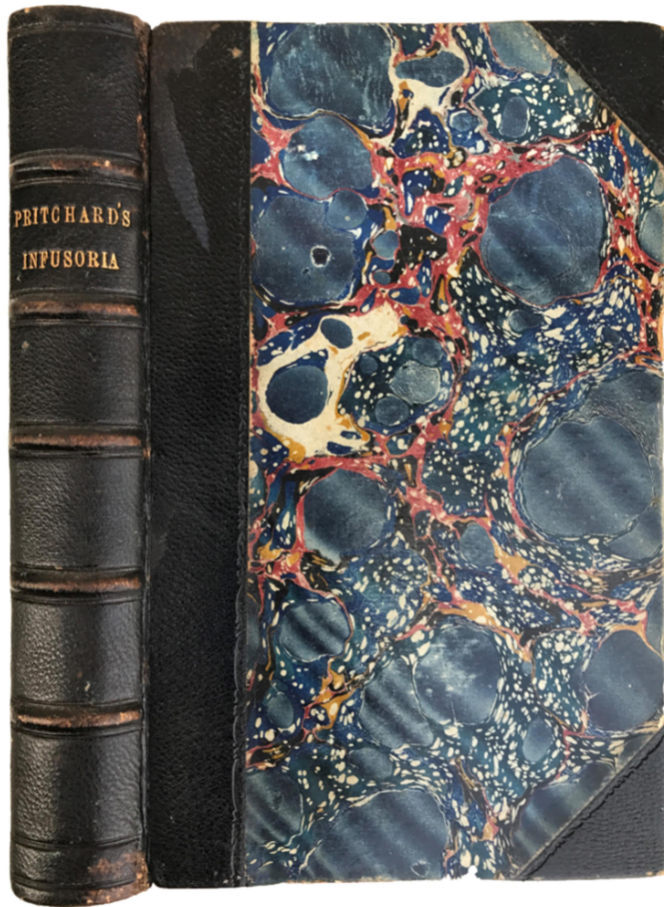
\$ 395

First French edition of a classic of microscopic literature. Martin 163 (for the first English edition of 1832). Microscopic studies of the larvae of crocodiles, dragonflies, notonectidae or boatfly, animalcules, infusoria, gnat, green & brown polyps, satyrid butterfly, freshwater Cyclops, shrimp. Added to this are microscopic terminology, applying microscopes to precious stones, etc. One of the folding plates shows Andrew Prichard's Jewel & Doublet Microscope. Dr C.R. Goring, who made the drawings for the plates, was a medical practitioner and amateur microscopist.

"During the 1830s Goring and Pritchard published several works that presaged and helped instigate the intense publishing activity that accompanied the heightened popularity of microscopy later in the 19th century. Pritchard and Goring's illustrated books are important for their pioneering exploration of natural history and for their espousal of an ultimately fruitless innovation in microscope development: the diamond lens microscope." - Whipple Library. "Creating the original drawings of insects was not easy. Goring railed at the insects' 'incorruptible restlessness' which 'so balks and baffles the artist, that he is frequently compelled to lay down his pencil to regain his lost temper, and fresh courage to proceed'."

"Nineteenth-century England's fascination for the study of microorganisms had made optical development of the microscope an English preserve. Against this background Pritchard and Goring devoted much time to the development of lenses made of diamond and other precious stones. They sought to realize Brewster's notion of the jewel microscope as a means of counteracting two defects that had hampered the use of the existing compound microscope (i.e. a microscope containing two or more lenses). The first defect, known as chromatic aberration, resulted in a rainbow-effect caused by imperfections in the eyepiece lens and object glass. The second defect, known as 'spherical aberration', resulted from a tendency of the object glass to confuse rays of light projected through the slide by the mirror light source beyond it. This made the edges of any object under observation appear indistinct. Goring and Pritchard became convinced that these defects could be rectified through the use of a 'single microscope', comprising one lens made of diamond or some other precious stone. It was believed that the higher refractive index of precious stones would allow for a shallower curved lens, thereby reducing aberration. Unfortunately, despite Pritchard's hyperbole the innovation proved impractical as natural diamonds are too hard to work and most have flaws. Moreover, the jewel lens microscope was made obsolete by the invention of the doublet lens in 1828 by W.H. Wollaston (1766-1828) and work on the design of objective lenses for the compound microscope by Joseph Jackson Lister (1786-1869)." - Whipple Library. First Edition.

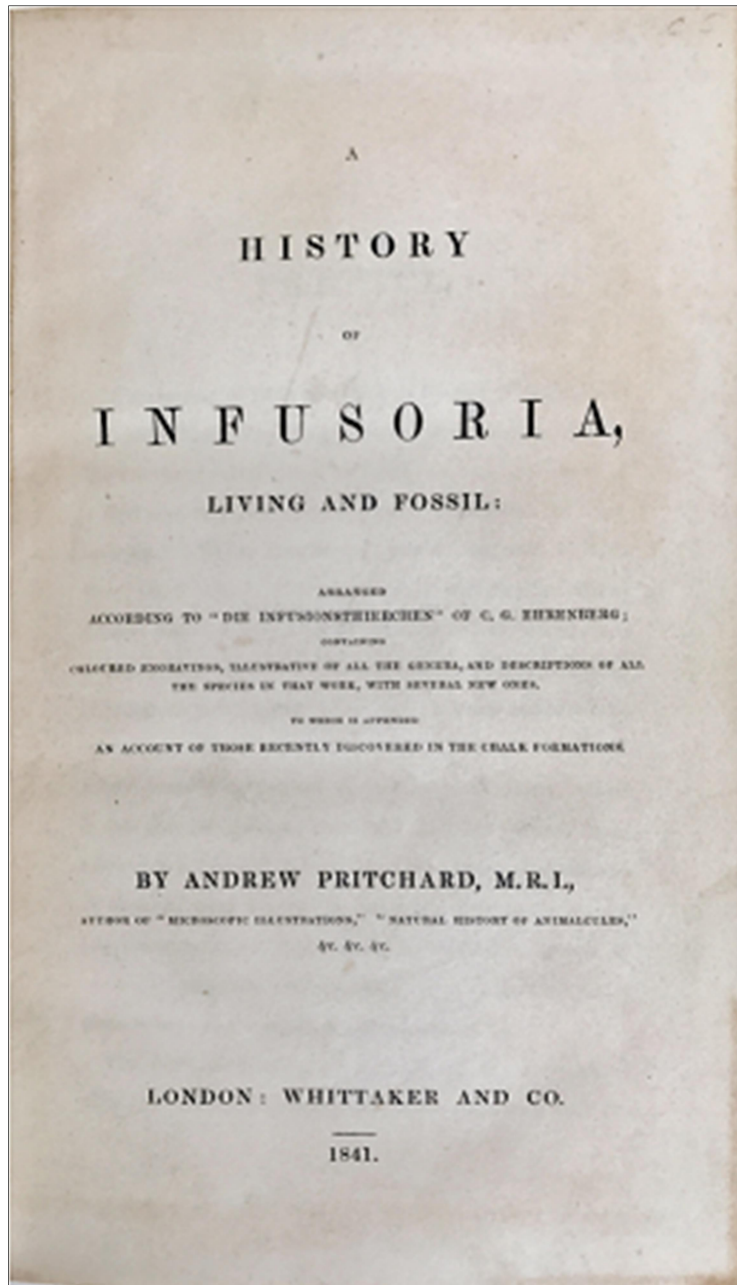




128. **PRITCHARD, Andrew** (1804-1882). *A History of Infusoria, living and fossil; arranged according to "Die Infusionsthierchen" of C. G. Ehrenberg; Containing Coloured Engravings, Illustrative of all the Genera & Descriptions of all the Species in that Work, with Several New Ones ... To which is appended an account of those recently discovered in the chalk formations.* London: Whittaker, 1841. ¶ Two parts in one. 8vo. ix, [1], 439, [1] pp. With tipped in patent notice of author, errata, 1 fig. (p.27), 12 engraved plates (of which 10 are hand-colored), errata, subscriber's list, index; ink stain at gutter pp. 116-117, small stain to pp. 408-409 (with related offsetting). Original half dark blind and gilt-stamped morocco, raised bands, marbled boards; rubbed. Very good.

\$ 195

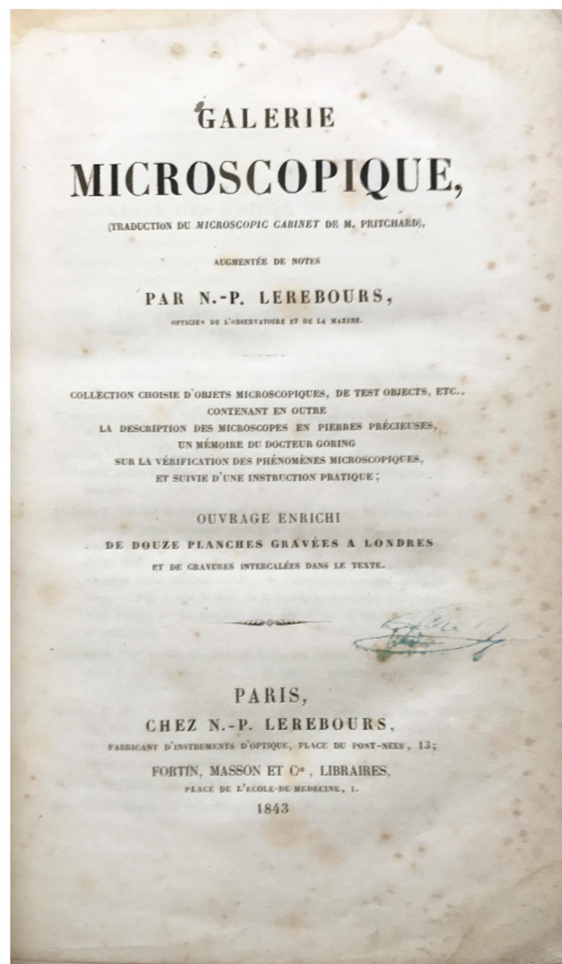
First edition. Being a description of various "infusoria", following the author's earlier *Natural History of Animalcules*, (1834), each book important for their study of microscopic organisms. Pritchard was an optician and had a shop where he sold microscopes and mounted slides. The *DNB* says of this work, "... his *History of the Infusoria*, ... was long a standard work, and the impetus it gave to the study of



biological science cannot be overestimated.” The text is devoted to the microscope and his innovations for the use of the microscope. Includes general history of “animalcules” or aquatic micro-organisms, that he describes and arranges by family, and includes an appendix by Dr. Ehrenberg’s on infusoria belonging to chalk formations. “The first book to render accessible to inquirers respectable microscopic figures of numerous minute organisms with which many become familiar through the microscope ... a valuable contribution to science, of great practical use. . . illustrations are beautifully engraved.” – *The Canadian Journal of Industry, Science and Art*, volume VII.

Originally published as *The natural history of animalcules* (London, 1834), the earlier work was rewritten, enlarged, and

issued as *A History of Infusoria*, 1841. Pritchard, of London, was an optician by profession, and was early interested in the microscope. He succeeded, in 1826, to grind a single lens from a diamond. “His practical work on the microscope, however, was less productive of lasting results than his literary laborours on the application of the instrument to the investigation of microorganisms. His *History of Infusoria* was long a standard work, and the impetus it gave to the study of biological science cannot be readily overestimated.” – *DNB*.

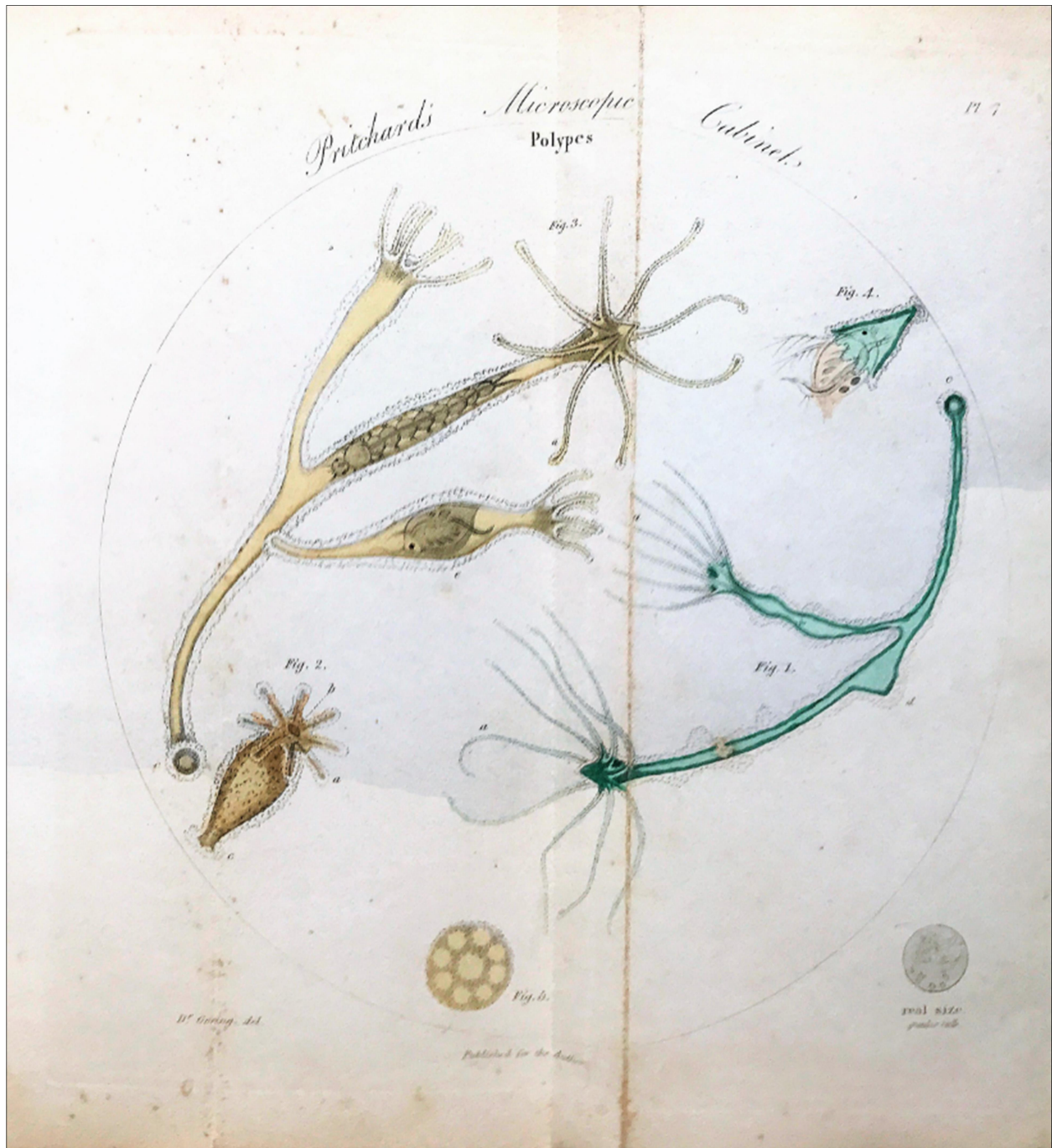


129. [PRITCHARD, Andrew] LEREBOURS, Noel Marie Paymal. *Galerie Microscopique*, (traduction du *Microscopic Cabinet* de M. Pritchard), *augmentée de notes*. Paris: N.-P. Lerebours, 1843. ¶ 8vo. VIII, 224 pp. Half-title, numerous figs., 12 plates drawn by C.R. Goring (1792–1840) and engraved by W. Kelsall (10 of which are colored, 2 folding), numerous figures; spotted and/or foxed, with marginal damp-stains. Handsome modern quarter gilt-stamped crimson morocco, marbled boards. Ownership signature of title obscured; old rubber-stamp "Bibliothèque Populaire" (preface, p.85). Very good. [SS13178]

\$ 395

First French edition of a classic of microscopic literature. Martin 163 (for the first English edition of 1832). Microscopic studies of the larvae of crocodiles, dragonflies, notonectidae or boatfly, animalcules, infusoria, gnat, green & brown polyps, satyrid butterfly, freshwater Cyclops, shrimp. Added to this are microscopic terminology, applying microscopes to precious stones, etc. One of the folding plates shows

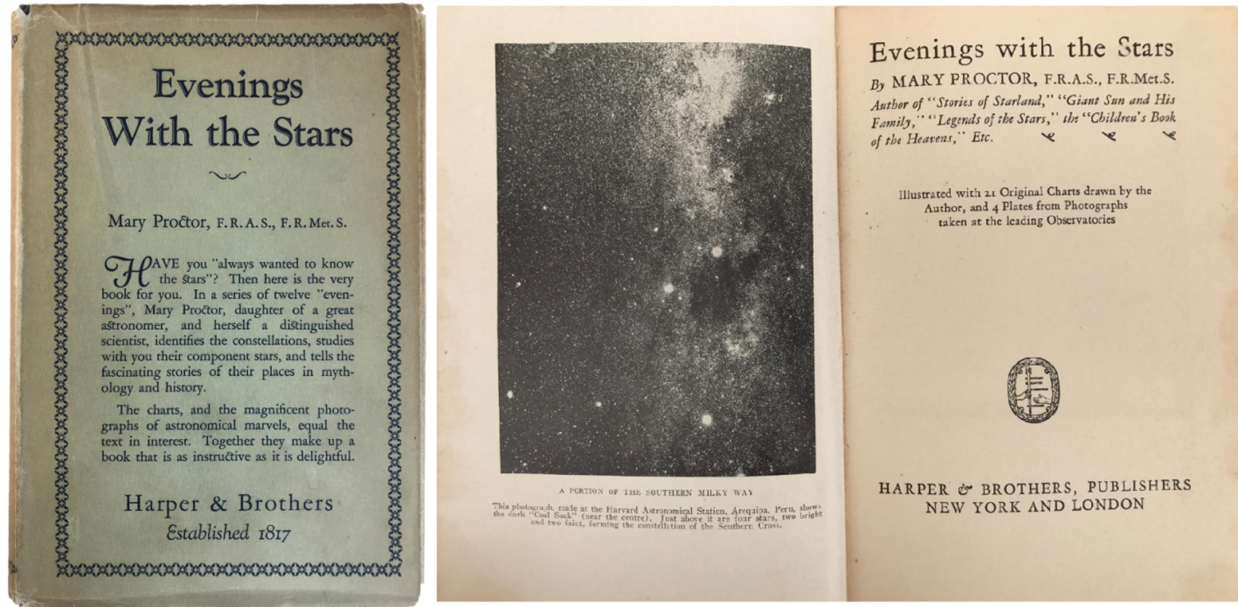
Andrew Prichard's Jewel & Doublet Microscope. Dr C.R. Goring, who made the drawings for the plates, was a medical practitioner and amateur microscopist.



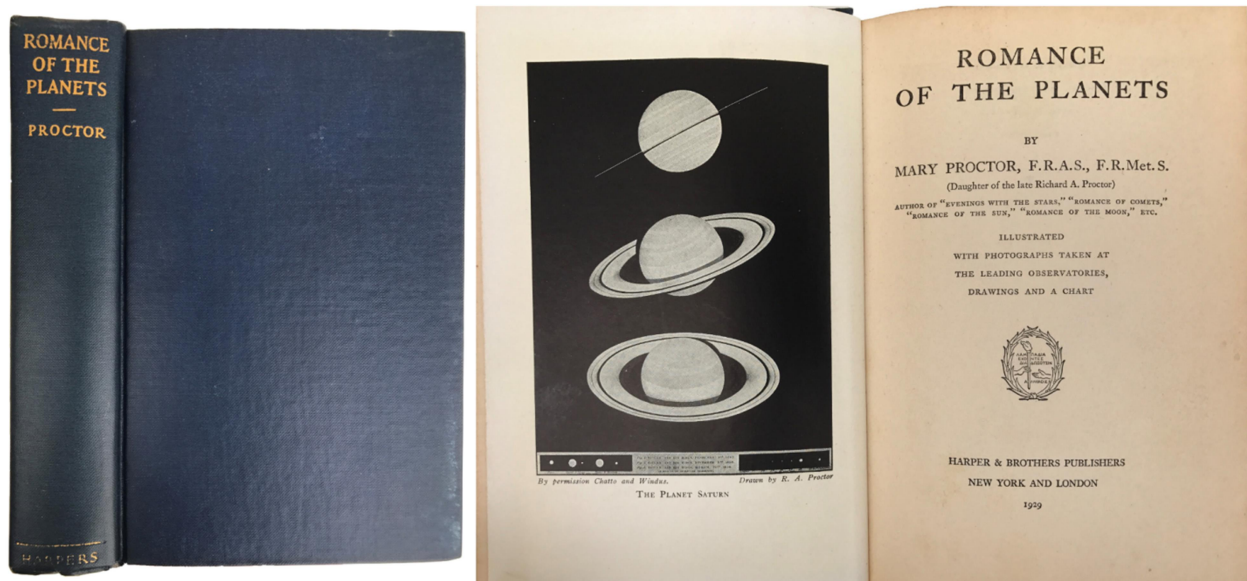
"During the 1830s Goring and Pritchard published several works that presaged and helped instigate the intense publishing activity that accompanied the heightened

popularity of microscopy later in the 19th century. Pritchard and Goring's illustrated books are important for their pioneering exploration of natural history and for their espousal of an ultimately fruitless innovation in microscope development: the diamond lens microscope." – Whipple Library. "Creating the original drawings of insects was not easy. Goring railed at the insects' 'incorruptible restlessness' which 'so balks and baffles the artist, that he is frequently compelled to lay down his pencil to regain his lost temper, and fresh courage to proceed!'"

"Nineteenth-century England's fascination for the study of microorganisms had made optical development of the microscope an English preserve. Against this background Pritchard and Goring devoted much time to the development of lenses made of diamond and other precious stones. They sought to realize Brewster's notion of the jewel microscope as a means of counteracting two defects that had hampered the use of the existing compound microscope (i.e. a microscope containing two or more lenses). The first defect, known as chromatic aberration, resulted in a rainbow-effect caused by imperfections in the eyepiece lens and object glass. The second defect, known as 'spherical aberration', resulted from a tendency of the object glass to confuse rays of light projected through the slide by the mirror light source beyond it. This made the edges of any object under observation appear indistinct. Goring and Pritchard became convinced that these defects could be rectified through the use of a 'single microscope', comprising one lens made of diamond or some other precious stone. It was believed that the higher refractive index of precious stones would allow for a shallower curved lens, thereby reducing aberration. Unfortunately, despite Pritchard's hyperbole the innovation proved impractical as natural diamonds are too hard to work and most have flaws. Moreover, the jewel lens microscope was made obsolete by the invention of the doublet lens in 1828 by W.H. Wollaston (1766–1828) and work on the design of objective lenses for the compound microscope by Joseph Jackson Lister (1786–1869)." – Whipple Library.

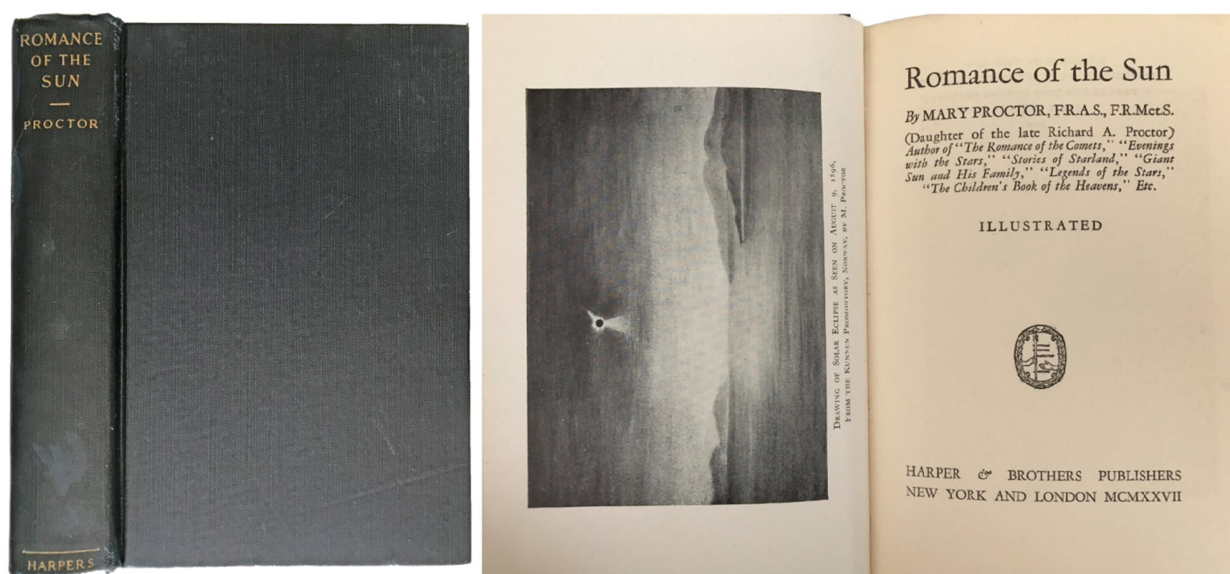


130. **PROCTOR, Mary** (1862-1957). *Evenings With the Stars*. New York & London: Harper & Brothers, 1929. ¶ First edition. Small 8vo. x, [2], 219 pp. 4 plates, 21 charts, 1 fig., index. Original gilt-stamped navy cloth, dust-jacket; spine ends rubbed. Ownership presentation ink inscription. Very good. \$ 15

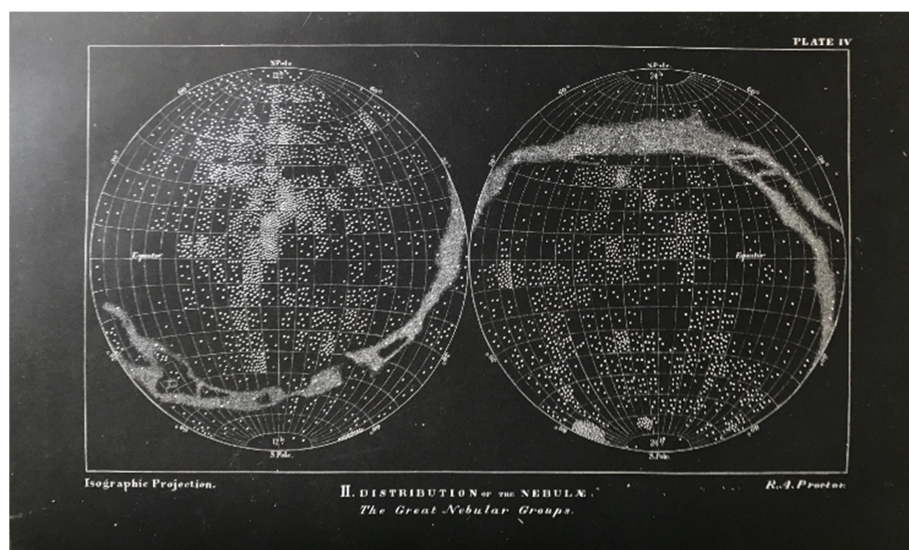


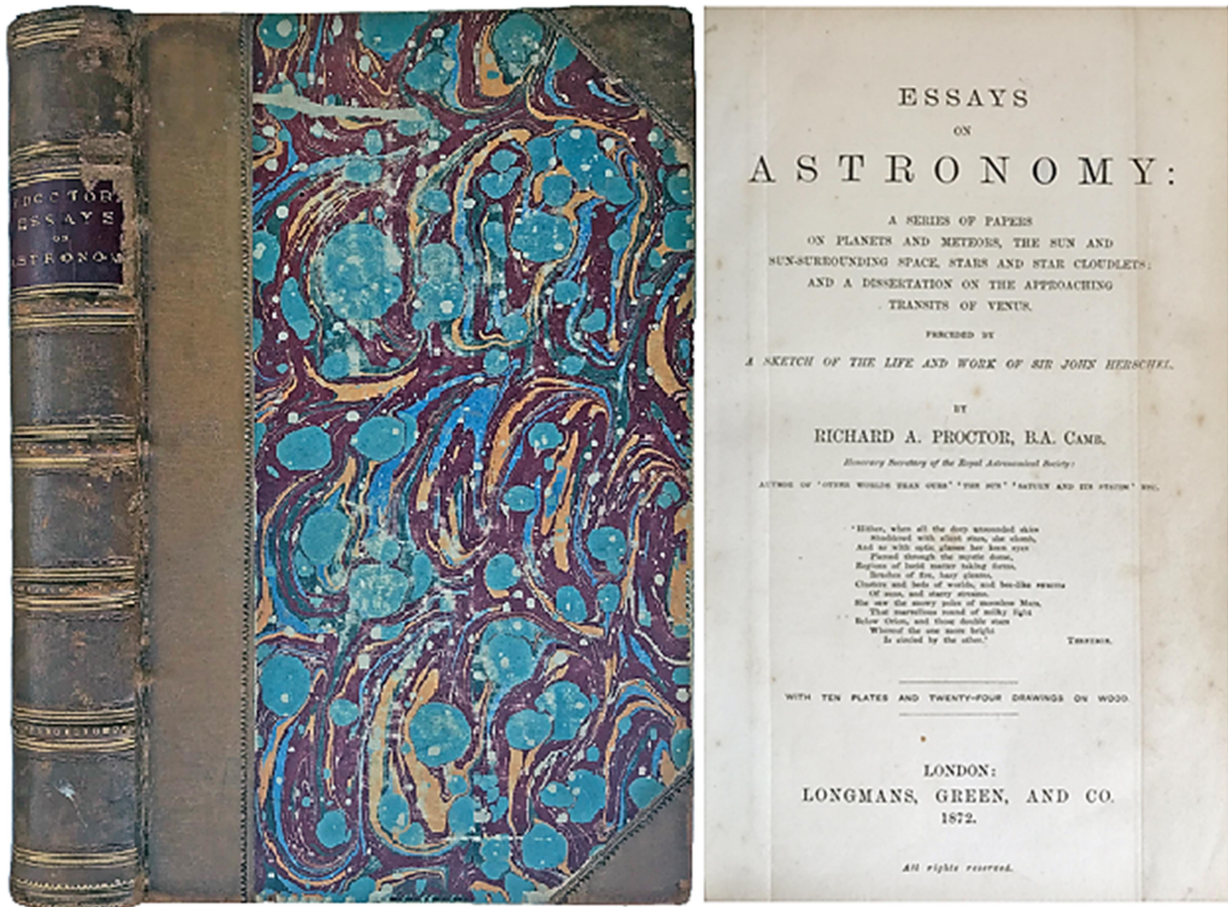
[131]

131. **PROCTOR, Mary** (1862-1957). *Romance of the Planets. Illustrated with photographs taken at the leading observatories, drawings and a chart.* New York & London: Harper & Brothers, 1929. ¶ First edition. Small 8vo. xii, [1], 272 pp. 8 plates (9 illus), index. Original gilt-stamped navy cloth, remnant of dust-jacket present. Former ownership signature [G.R. Burk?]. \$ 10



132. **PROCTOR, Mary** (1862-1957). *Romance of the Sun. Illustrated.* New York & London: Harper & Brothers, 1927. ¶ First edition. Small 8vo. xii, [2], 266 pp. 13 plates, index. Original navy blue gilt-stamped cloth; rear hinge with 1-inch tear (repaired), else very good. \$ 14

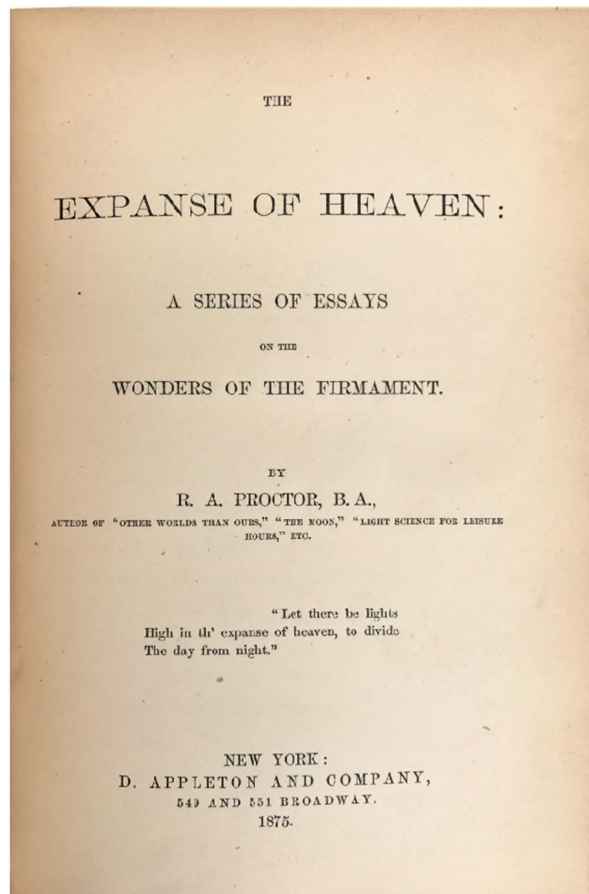
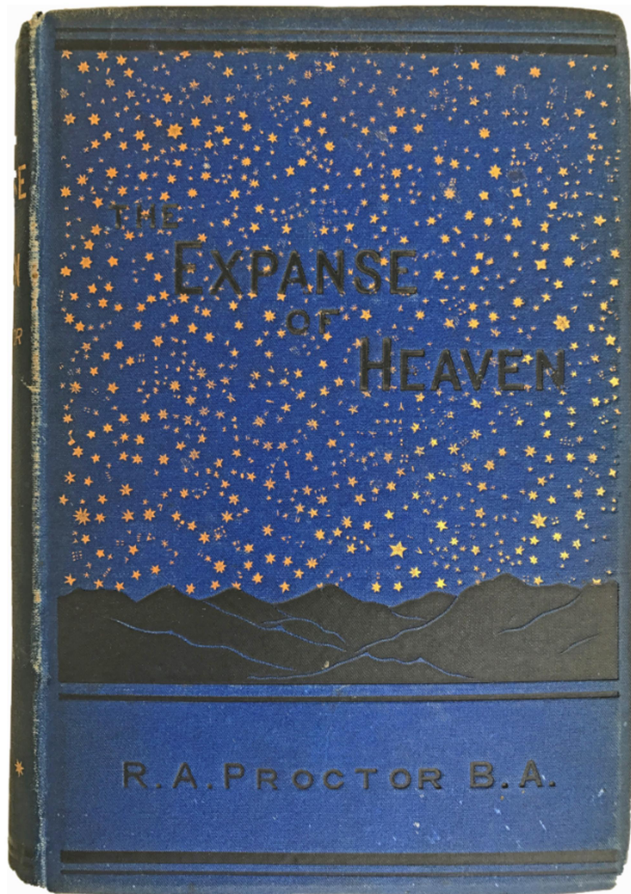




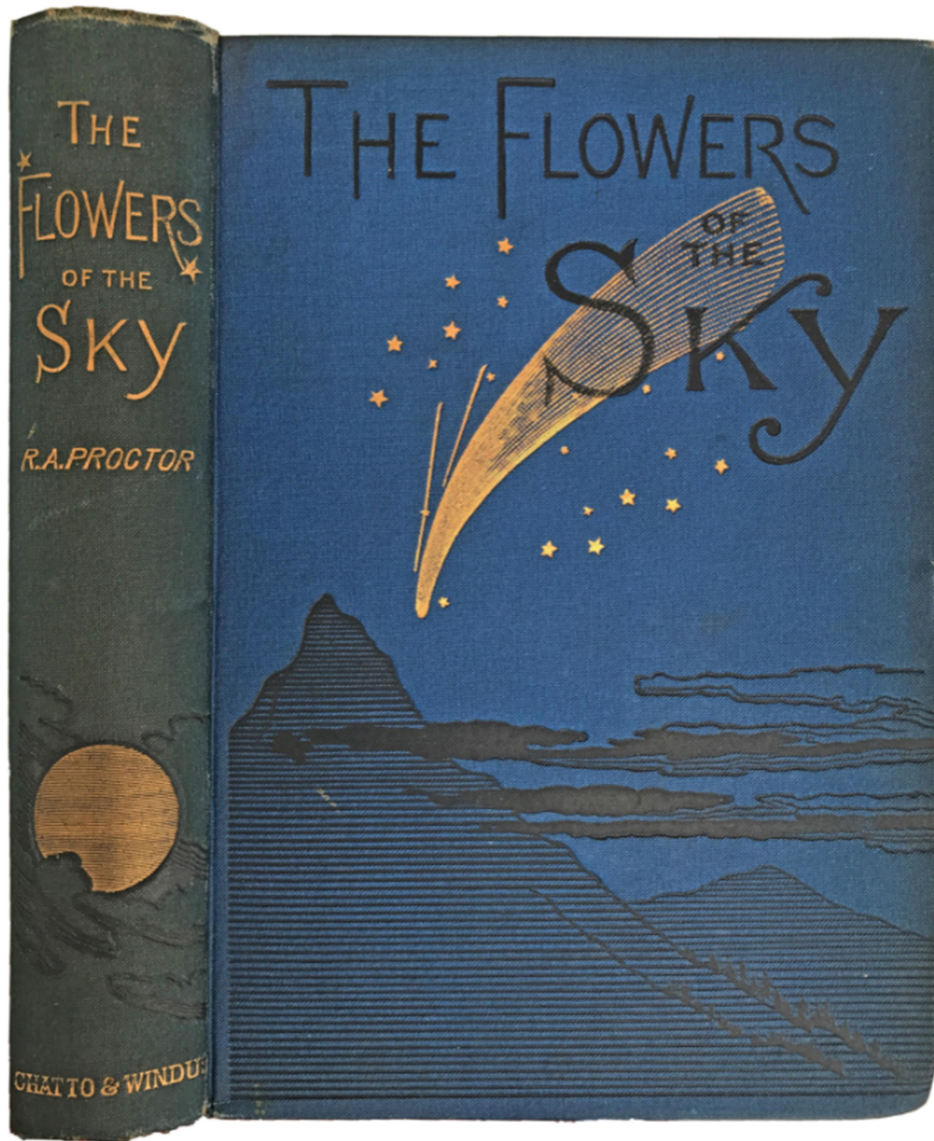
133. **PROCTOR, Richard A.** (1837-1888). *Essays on Astronomy: A series of papers on planets and meteors, the sun and sun-surrounding space, stars and star cloudlets; and a dissertation on the approaching transits of Venus. Preceded by a sketch of the life and work of Sir John Herschel.* London: Longmans, Green, 1872. ¶ 8vo. xiv, [2], 401 pp. 10 plates (including folding frontispiece), 24 woodcut figures. Original half blind- and gilt-stamped calf, raised bands, maroon spine label; rubbed. Very good.

\$ 95

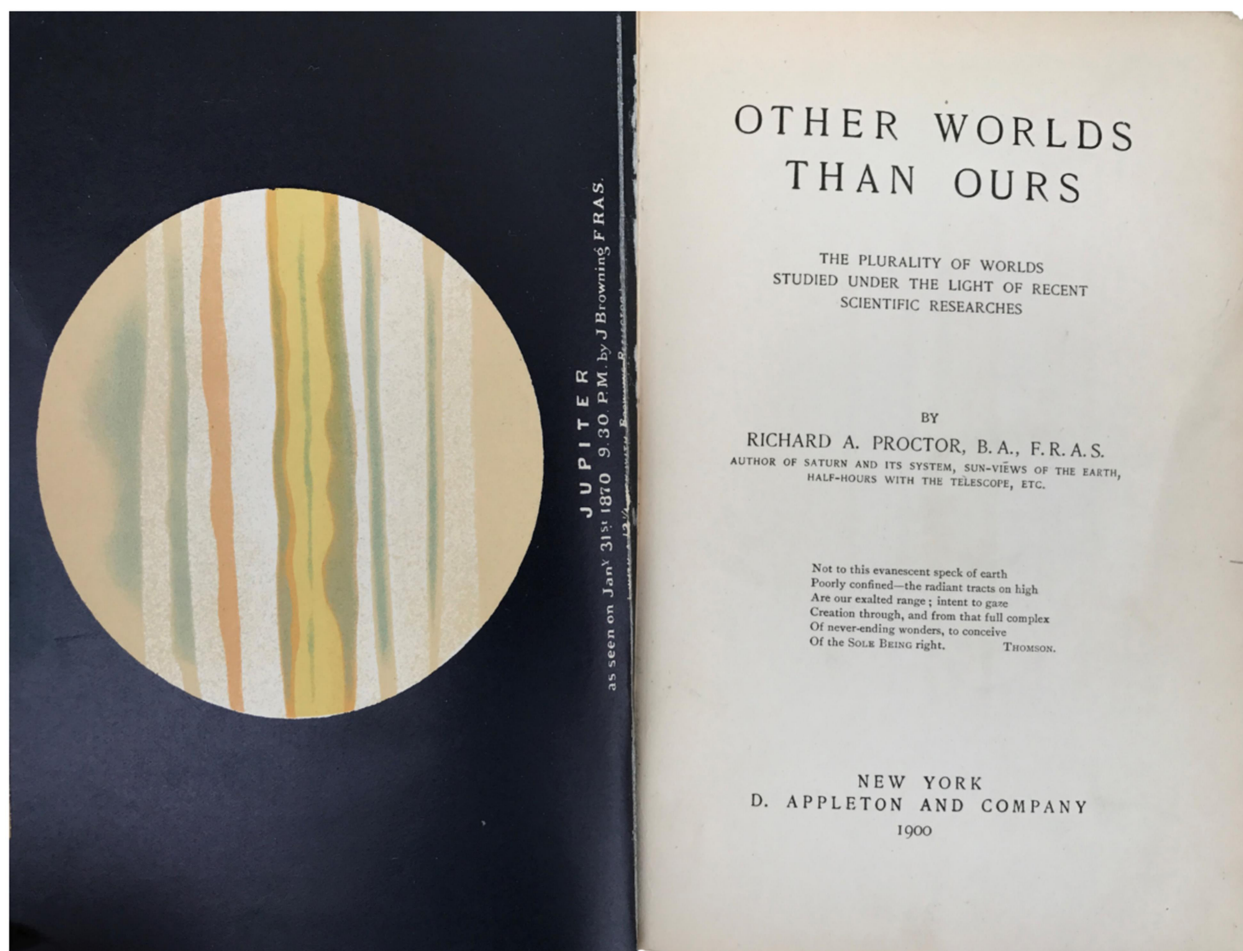
With a life of Sir John Herschel.



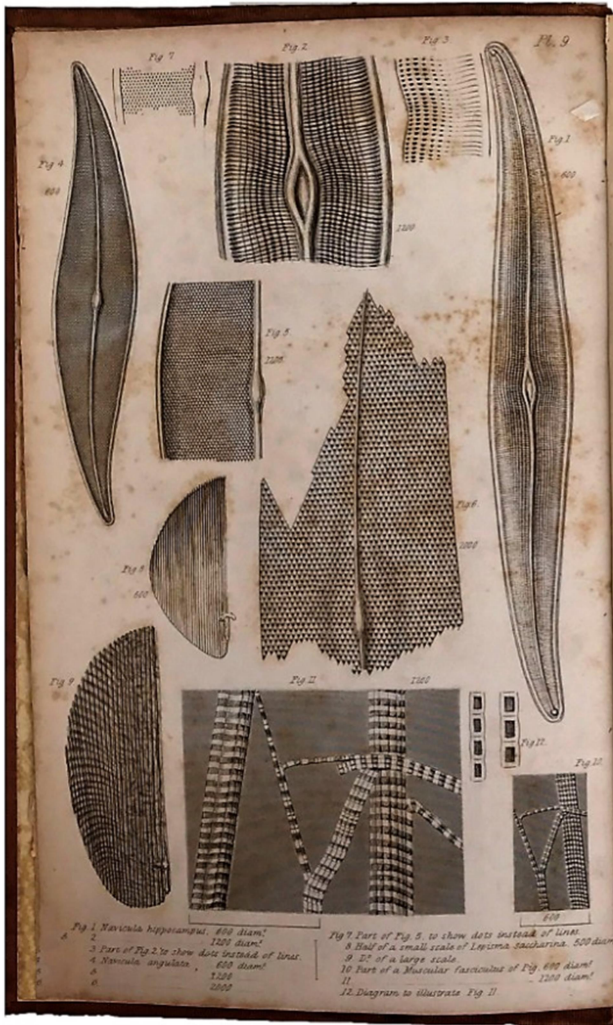
134. **PROCTOR, Richard A.** (1837-1888). *The Expanse of Heaven: a series of essays on the wonders of the firmament.* New York: D. Appleton, 1875. ¶ Sm. 8vo. iv, 305, [24] pp. Original full navy blue gilt and black-stamped cloth; extremities showing wear, rubbed. Ownership signature to Millie Mary Snyder, 1915; Millie Mary Behnke, 1936. Very good. \$ 13.50



135. **PROCTOR, Richard A.** (1837-1888). *Flowers of the Sky*. A new edition. London: Chatto & Windus, 1883. ¶ Small 8vo. [vii], 295, [1], 32 pp. Half-title, frontis., 54 figures. Original dark blue black and gilt-stamped pictorial cloth covers (showing gilt-comet across the earth's night sky); leaves loose due to being bound with staples: this rots the gutter and the leaves are gradually rusted through. This book will suffer with all copies bound in this manner. The copy here is rated thus as good. \$ 20



136. **PROCTOR, Richard A.** (1837-1888). *Other Worlds than Ours; the plurality of worlds studied under the light of recent scientific researches*. New York: D. Appleton & Co., 1900. ¶ Authorized edition. Small 8vo. 534 pp. Color plates, color chart of Mars. Original olive gilt and blind-stamped cloth; spine ends worn. Ownership signature of Richard M. Jefts. \$ 10



A
 PRACTICAL TREATISE
 ON THE USE OF THE
MICROSCOPE,

INCLUDING THE
 DIFFERENT METHODS OF PREPARING AND EXAMINING
 ANIMAL, VEGETABLE, AND MINERAL STRUCTURES.

BY
JOHN QUEKETT,

ASSISTANT CONSERVATOR OF THE MUSEUM AND DEMONSTRATOR OF MINUTE ANATOMY
 AT THE ROYAL COLLEGE OF SURGEONS OF ENGLAND.

Second Edition, with Additions.

ILLUSTRATED WITH TWELVE PLATES AND TWO HUNDRED AND SEVENTY
 WOOD ENGRAVINGS.

LONDON:
 H. BAILLIERE, PUBLISHER, 219, REGENT STREET;
 AND 290, BROADWAY, NEW YORK, U.S.
 PARIS: J. B. BAILLIERE, RUE HAUTEFEUILLE.
 MADRID: BAILLY BAILLIERE, CALLE DEL PRINCIPE.

1852.

137. **QUEKETT, John Thomas** (1815-1861). *A Practical Treatise on the Use of the Microscope, including the different methods of preparing and examining animal, vegetable, and mineral structures.* London and New York: H. Bailliere; Paris: J. B. Bailliere; Madrid: Bailly Bailliere, 1852. ¶ 8vo. xxii, [2], 515 pp. Half-title, 270 wood engraved figs. (5 hand-colored: see pp. 241, 242, 247), index, 12 plates (1 double-page); foxed, pl. X with tear. Original mauve blind- and gilt-stamped cloth; joints mended, chipped piece missing from spine, spine ends worn. Ownership signatures of Thomas J. Cottle and [to] Fitzroy Gourley Graham Cottle, from his mother, L.P.C. Very good.

SECOND EDITION with additions of Quekett's important work on the microscope. In 1852 Quekett became professor of histology and was appointed resident conservator of the Hunterian Museum, succeeding Owen as conservator in 1856. *DNB*, XVI, p. 540-542.

Hartley rates this his 6th most favorite book on microscopy: "...the great Quekett [6] taught me the origins, when all the lenses were convex and men fought for resolution: a fundamental

basis." – Gilbert

Hartley," A dozen favourite books on microscopy",

Quekett Journal of Microscopy, 2005, 40, 39–40.

PROVENANCE:

Thomas J. Cottle –

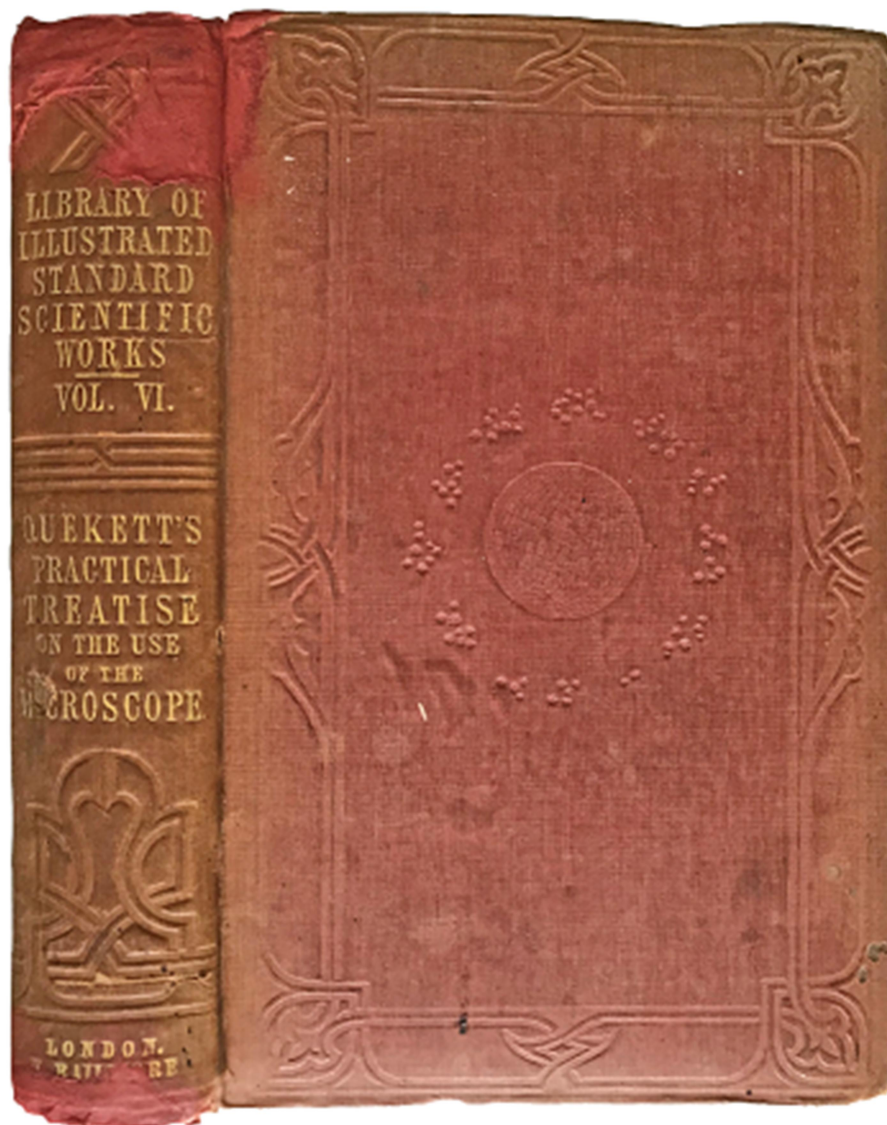
Fitzroy Gourley

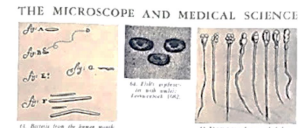
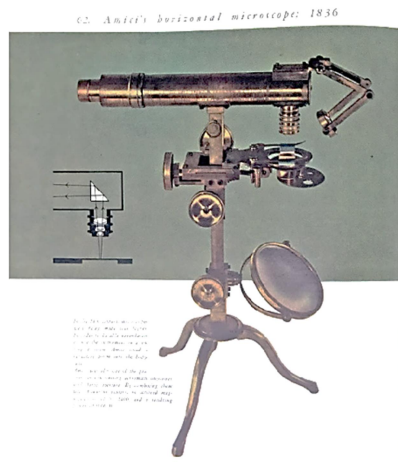
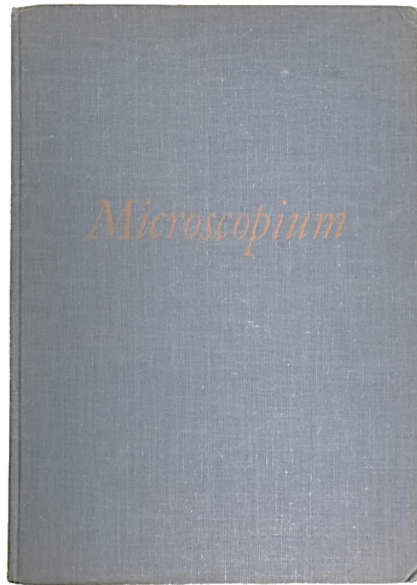
Graham Cottle

d.1932). Cottle

resided in Ontario,

Canada.





"The old idea of the most powerful lenses ever made has not been a case of failure, but for their makers as well as for us."
— WILKIN SMITH

Already a short time after the invention of the microscope the idea that Amici might be caused by usually small living organisms was being suggested by some. But Leewenhoek, who discovered Proteus in feces, and bacteria in the human mouth [sic] declines to associate the idea of a pathogenic virus with his "vita animalis." His contemporary Christian Hagenia does venture this assumption, and also makes the possibility of experiment suggested, but too little was known, as yet, in the 17th century about microorganisms to make this work with any chance of success. More than a century and a half more the path where these ideas were given a foundation based on accurate observation. That, as early as 1828, Hans Reichenow speculated "Many things in the domain might be seen that are new to us, and with great benefit," but this thought can, could not be first used throughout the microscope throughout continental anatomy had led to generally accepted results.

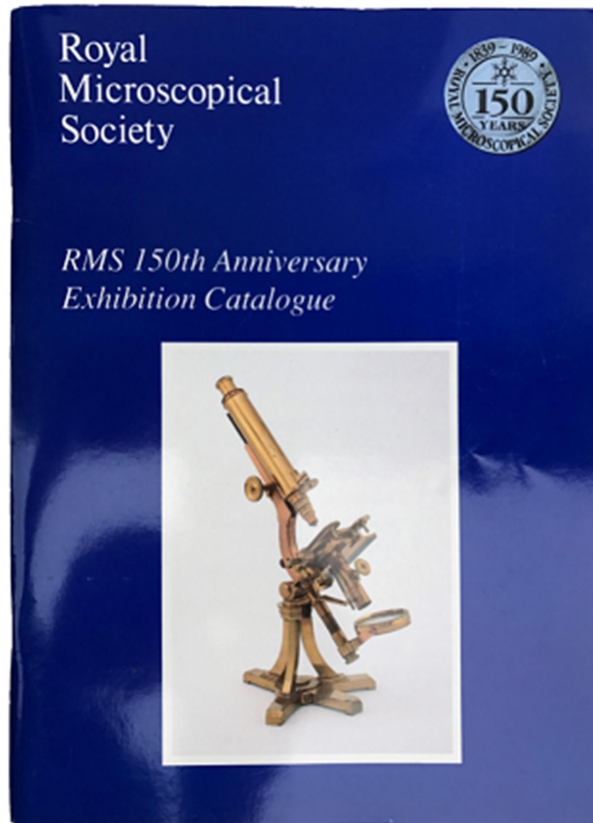
It was especially Metchnikoff—a little later—Leewenhoek who laid the foundation for the so necessary knowledge. Metchnikoff, with the aim in view to understand the vital process in man, undertakes an investigation on a white blood. He makes an admirable study of the underlying of the cells, as well as of human organs, being the first to recognize the rough, and, like stars, spines, and knogge, eventually coupled with microscopic methods.

Leewenhoek, in the course of his long life, made numerous contributions to the knowledge of microscopic anatomy (see p. 20), but regarding the study was on difficult, and demanded so much patience that most physicians declined to apply the new method of investigation and instead abstained or speculated upon the problems raised by the progress of microscopy.

With respect to reproduction, we cannot easily agree, however, that the words uttered for them that it is the mammalian cell (or rather the "Cytoblast") discovered in 1812 by Ranvier de Grand, that is dependent on reproduction, the animal cell, on the other side, a typical Leewenhoekian, in his theory that the middle "cell nucleus" showed by him [sic] same.

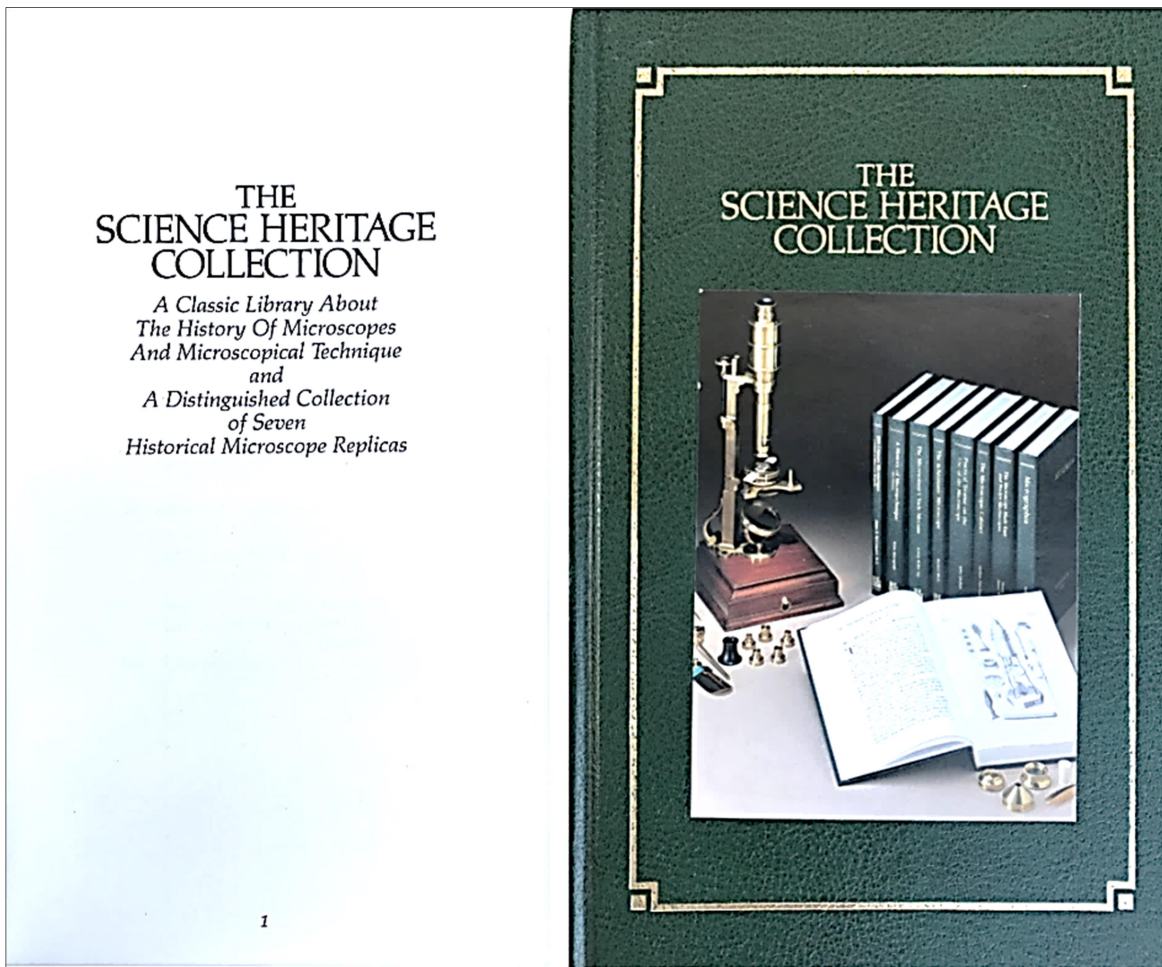
Another important question that was arising up controversy was that of the actual basis of the microscope, in the domain of living organisms. Donders had formulated the microscope might create not in its own right, and it is believed that Leewenhoek and some others believed, for some time, that they saw minute globules, every way, as the smallest elements in all structures, with the aim in view to understand

138. **ROOSEBOOM, Maria.** *Microscopium*. Leiden: Rijksmuseum, 1956. ¶ 4to. 59, [1] pp. 115 illus. (some full color). Blue gilt-stamped cloth; corners bumped. With printed insert [by the author]. Very good. \$ 20.00

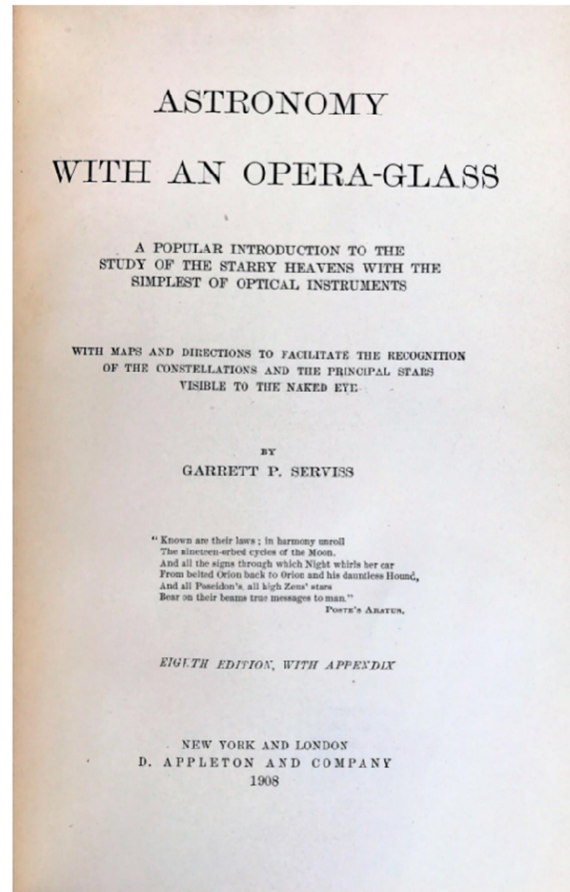
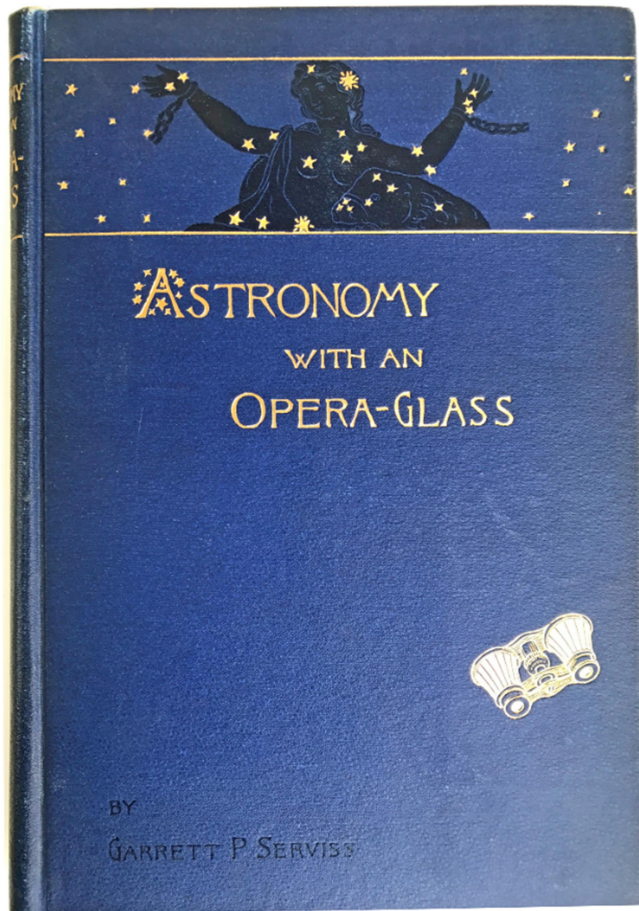


[139]

139. **Royal Microscopical Society.** *RMS 150th Anniversary Exhibition Catalogue.* Oxford: RMS, [1989]. ¶ 4to. 76 pp. Illustrated throughout. Original blue printed wrappers with a brass color-printed microscope by Quekett on the upper cover. Near fine. \$ 20
-



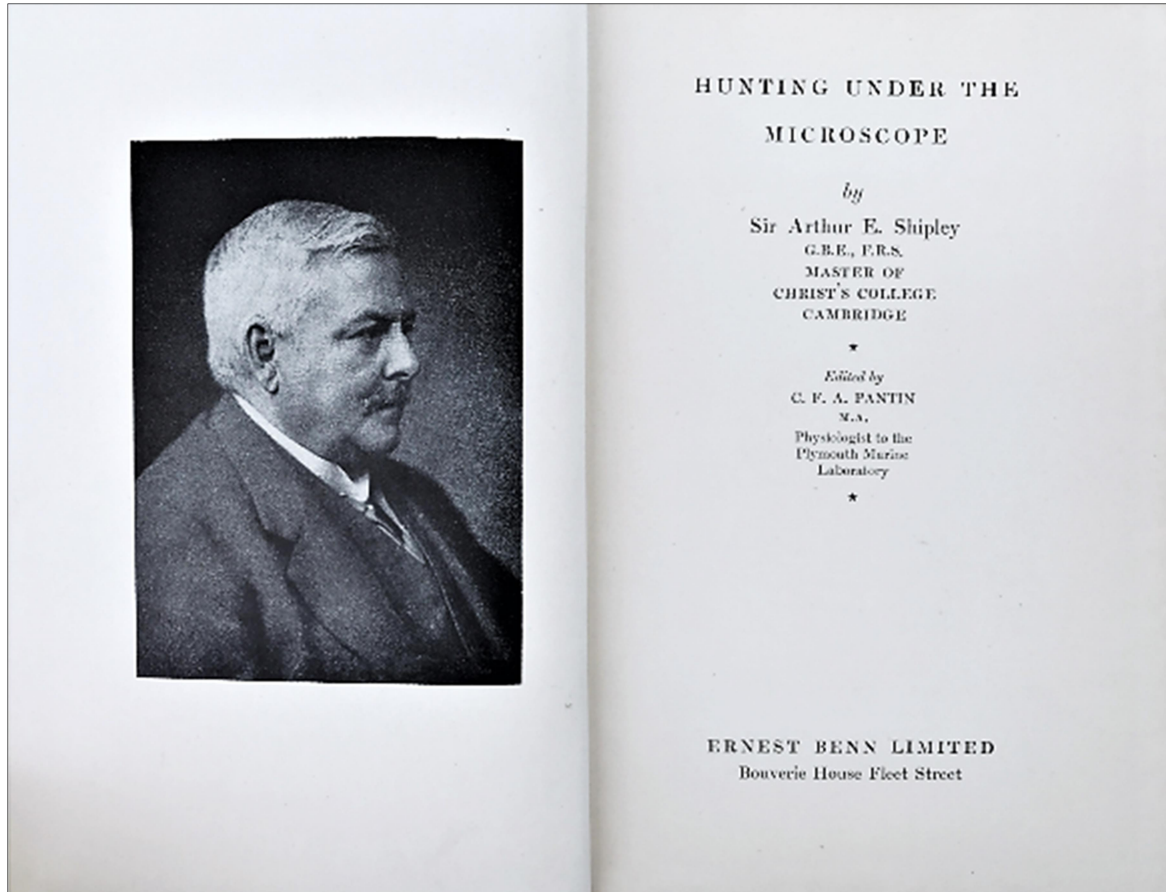
140. **Science Heritage Collection.** [Prospectus] *A Classic Library About the History of Microscopes and Microscopical Technique and a Distinguished Collection of Seven Historical Microscope Replicas.* Chicago: Science Heritage Ltd., 1989. ¶ 8vo. 35, [1] pp. Illus. (some color) Dark green pictorial hard covers. Fine. \$ 10



141. **SERVISS, Garrett P. (Putnam)** (1851-1929). *Astronomy with an Opera-Glass, a Popular Introduction to the Study of the Starry Heavens with the Simplest of Optical Instruments. Eighth edition; with appendix.* New York and London: D. Appleton, 1908. ¶ 8vo. vi, 158 pp. Illustrations, 20 maps, index. Original navy black and gilt-stamped cloth. Very good.

\$ 20

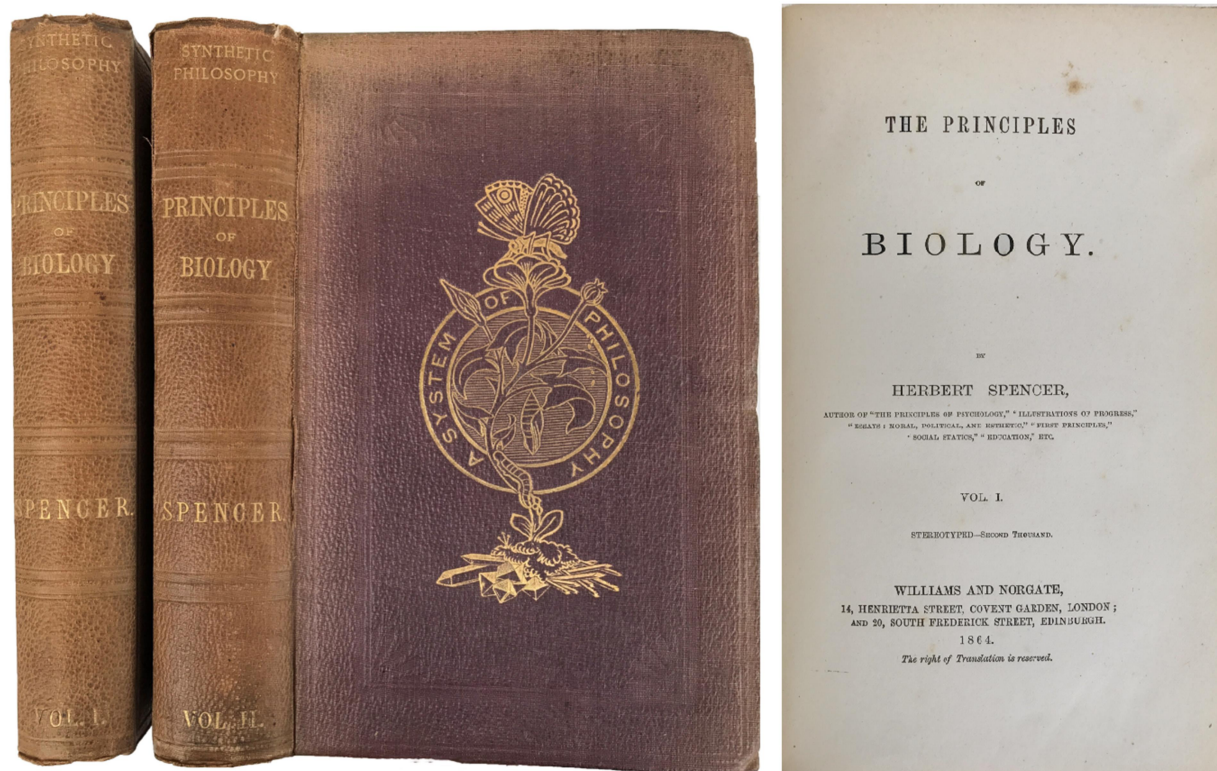
Originally published in 1888, this work supported amateur astronomers and those who owned modest equipment, such as an opera-glass, to use for observing the heavens.



142. **SHIPLEY, Arthur Everett, Sir** (1861-1927). *Hunting Under the Microscope*. London: Ernest Benn, (1928). ¶ 8vo. 184 pp. Blue cloth, gilt-stamped spine title; spine sun-faded. Very good.

\$ 10

Sir Arthur Everett Shipley GBE FRS, was an English zoologist, studied parasitic worms, lectured on advanced morphology and zoology, and served as Vice-Chancellor of the University of Cambridge.



143. **SPENCER, Herbert** (1820-1903). *The Principles of Biology*. Stereotyped – second thousand. London & Edinburgh: Williams and Norgate, 1864, 1867. ¶ 2 volumes. 8vo. [iv], viii, 492, [2]; viii, 574, [2] pp. Arranged in six parts, figs. (1 full page), ads. Original mauve blind and gilt-stamped cloth; joints torn, upper spines worn. Inscription of “William Lawson, Jan. 1880...”; rubber stamp of Leslie E. Orgel. Very good.

\$ 275

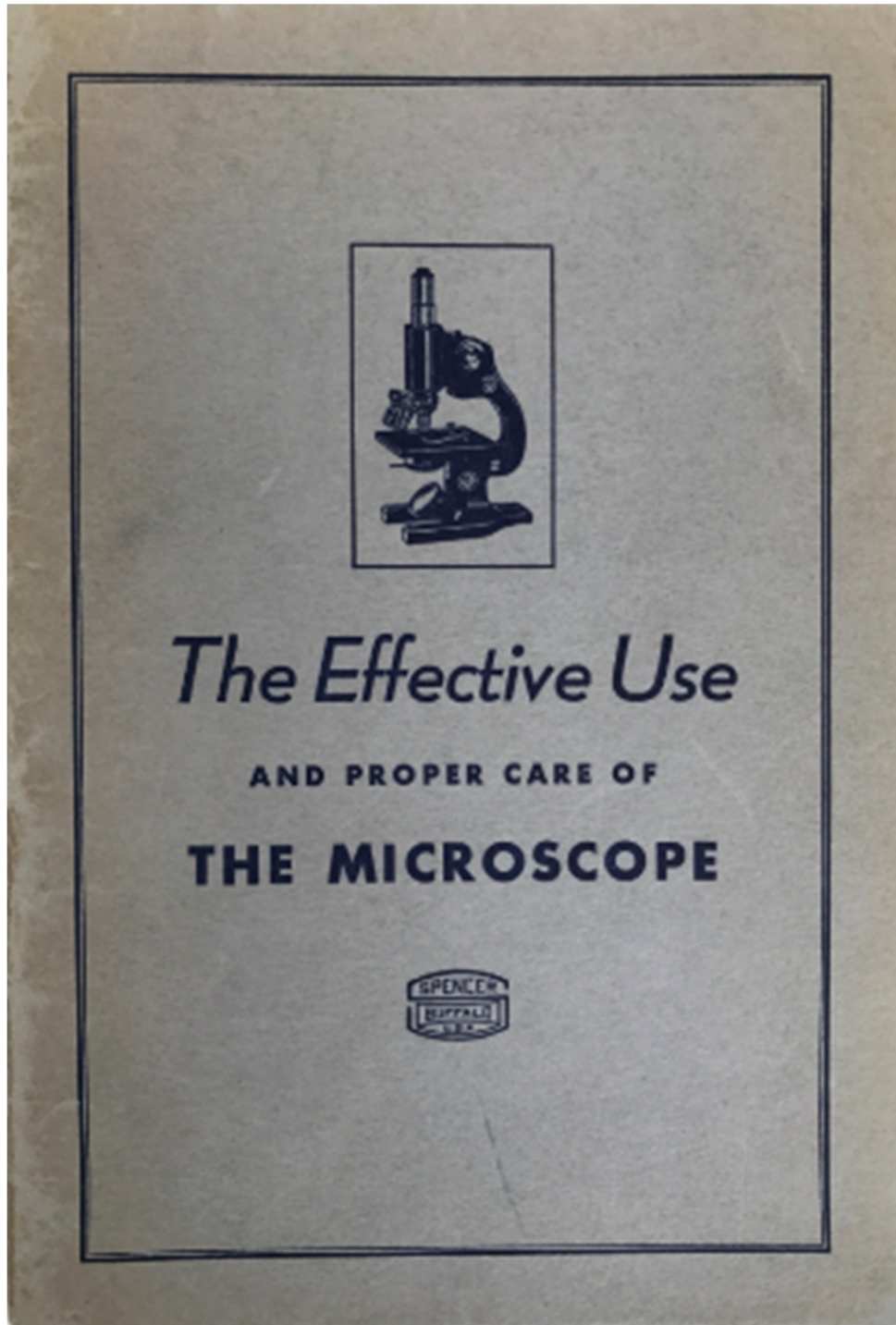
First edition, second issue [“second thousand”]. “Spencer conceived that every species is endowed with its own type of physiological unit, each unit being capable, under certain circumstances, or reproducing the whole organism. Spencer set forth doctrines of evolution some years before the appearance of the *Origin of Species*.” – Garrison and Morton.

“Starting from a definition of life as ‘a definite combination of heterogeneous changes, both simultaneous and successive ... in correspondence with external coexistences and sequences,’ Spencer saw higher forms emerging from a gradual process of adaptation to the environment. *The Principles of Biology* (1864-1867) analyzes the principal mechanisms by which this occurs and relates them to the specialized structures and functions of plants and animals. Although Darwinian natural selection was easily incorporated into Spencer’s system (as ‘indirect equilibration’), Spencer was always concerned to insist on the inheritance of acquired characteristics as a major mechanism of evolution.” – *DSB*. An appendix to volume one contains the author’s letter [see below] “On alleged ‘Spontaneous Generation’ and on the hypothesis of physiological units.”

This is Spencer’s great achievement in the field of biology, best known for the expression "survival of the fittest", which the author coined in this book, *Principles of Biology* (1864), after reading Charles Darwin's *On the Origin of Species*. – "Letter 5145 – Darwin, C. R. to Wallace, A. R., 5 July (1866)". Darwin Correspondence Project. He wrote: "This survival of the fittest, which I have here sought to express in mechanical terms, is that which Mr Darwin has called natural selection, or the preservation of favoured races in the struggle for life".

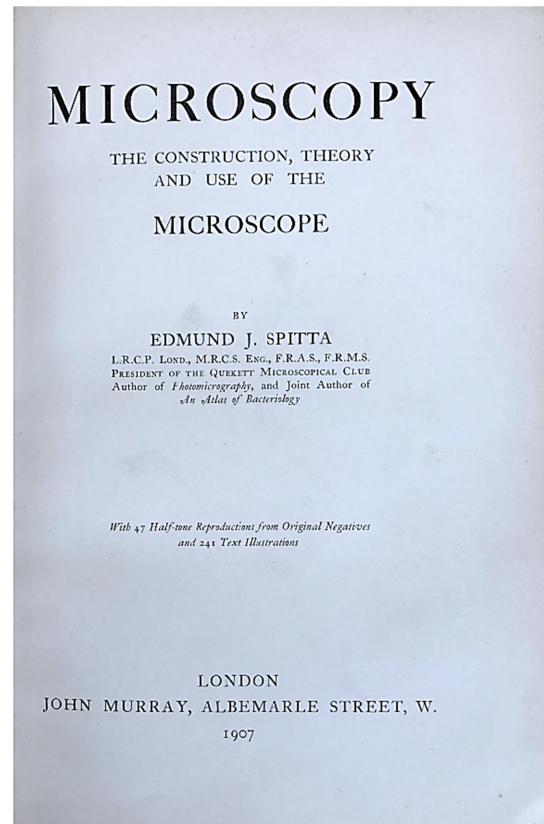
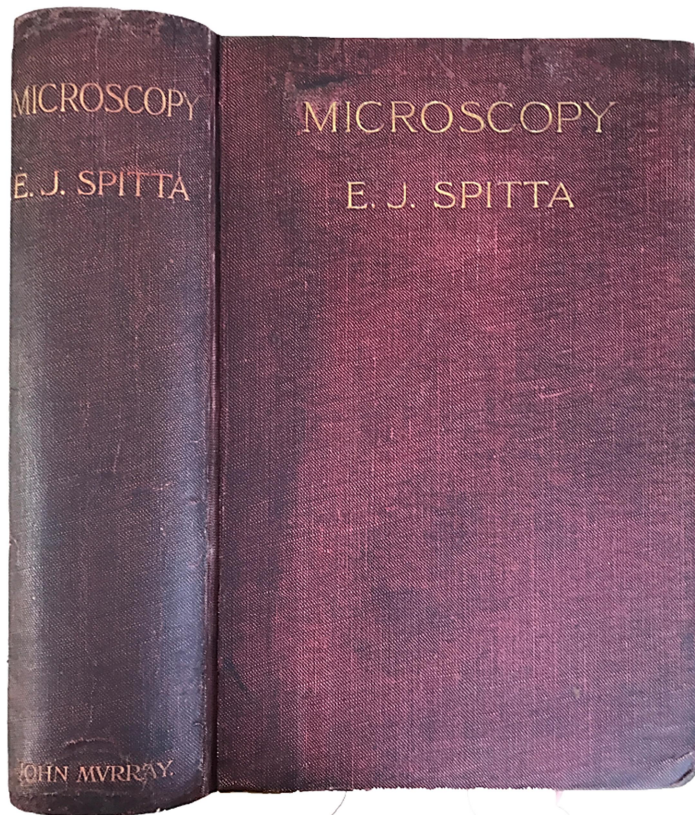
Herbert Spencer was an inspired generalist who made contributions to the nascent sciences of psychology and sociology. He received an eccentric education, and was more admired by boundary-crossing innovators than by scientific specialists.

☼ See: BM (Nat. Hist.), V, p. 1989 (1884 ed.); *DSB*, XII, p. 571; Easley, *Darwin’s Century*, p. 215; *Encyclopedia of Philosophy*, IV, p. 525-7; Garrison and Morton 119; Gascoigne 10847.1; Nordenskiöld, *History of biology*, pp. 492-3; Osler 1613.



144. **Spencer Lens Company; RICHARDS, Oscar W.** *The Effective Use and Proper Care of the Microscope*. Buffalo: Spencer Lens Company, 1941. ¶ 19 cm. 62 pp. 47 illustrations. Gray printed wrappers. Fine. \$ 20



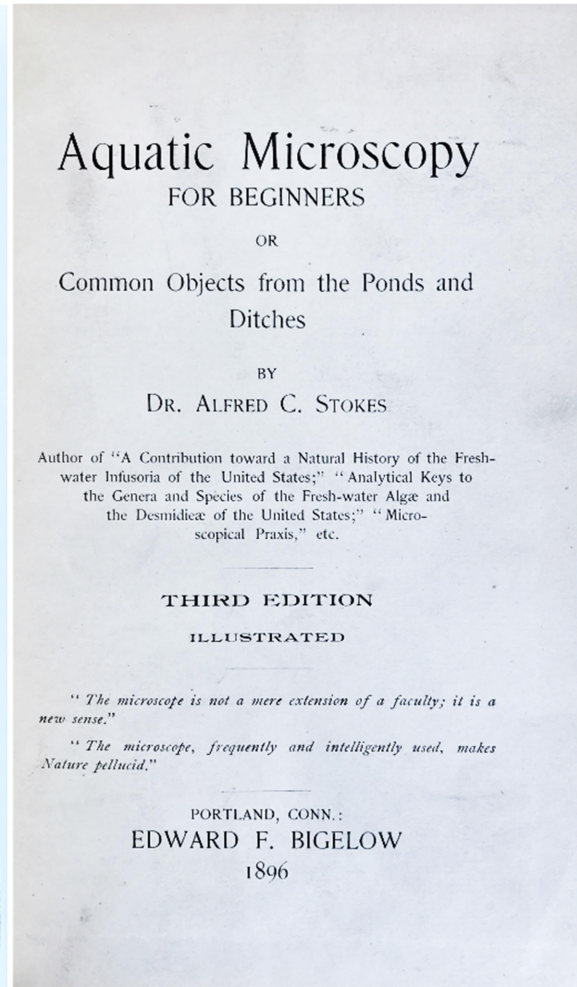
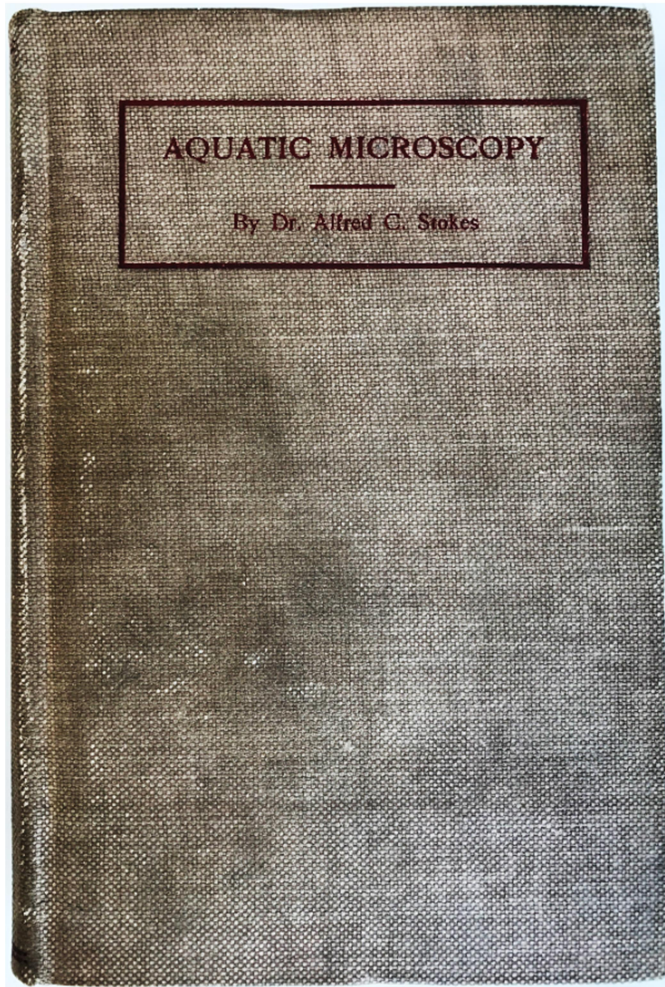


145. **SPITTA, Edmund J. (Johnson)**, (1853-1921). *Microscopy; the construction, theory and use of the Microscope*. London: John Murray, 1907. ¶ 8vo. xx, 472 pp. Frontis., 16 plates, 241 figures, index. Original full maroon gilt-stamped cloth; rebacked preserving original spine. Ownership signature [R.J. Sneed?]. Very good.

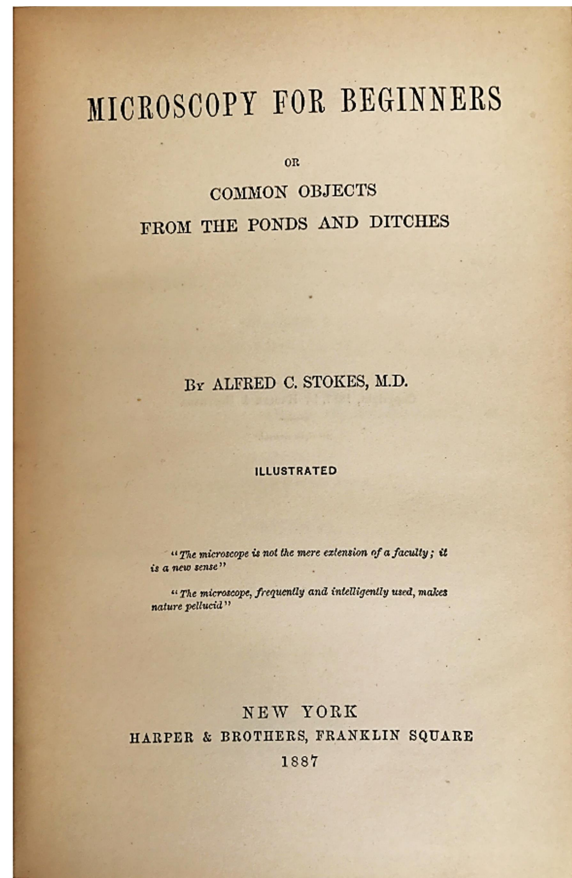
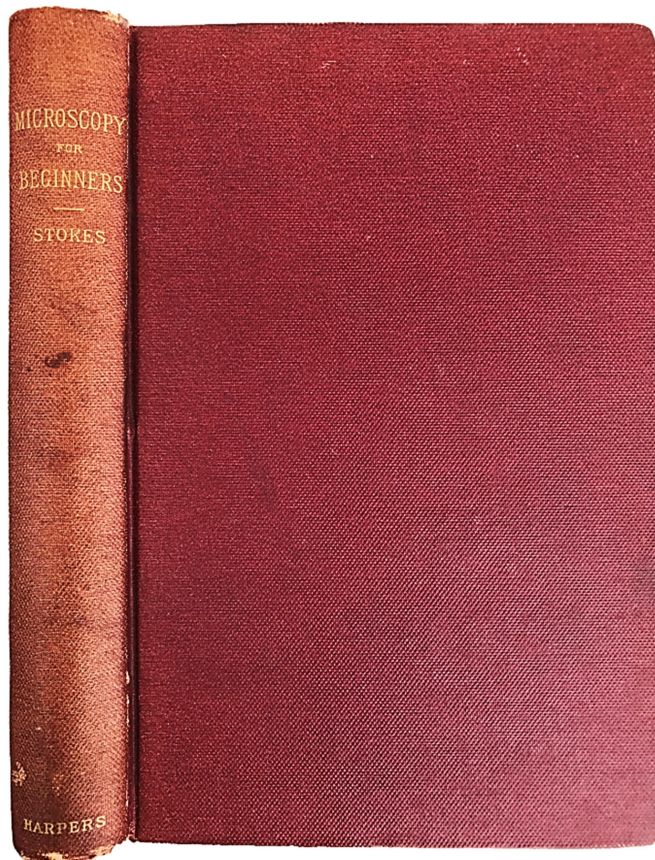
\$ 100

First edition. Comprehensive study of microscopy with 16 photographic plates of microscopic images and numerous illustrations that include many full page images of microscopes and related instruments.

Gilbert Hartley writes that this is one of his favorite (#2) of all books on microscopy: “My second book was Spitta [2], combining the proper handling of the substage and the mechanical evolution of the instrument from the long-bodied English stand to the short Continental type. The photomicrographs guarantee the integrity of the work, and form a test for the rest of us, who can now use flash instead of exposures measured sometimes in hours, and tungsten-halogen instead of the limes and bottled gases alarmingly described in his work on photomicrography. Spitta may be recognised as the microscopist’s Bible: time has added techniques, but the foundation is bedrock.” – Gilbert Hartley, “A dozen favourite books on microscopy”, *Quekett Journal of Microscopy*, 2005, 40, 39–40.



146. **STOKES, Alfred Cheatham.** *Aquatic Microscopy for Beginners.* Portland, CT: Edward F. Bigelow, 1896. ¶ Third edition. 8vo. xvi, 326 pp. 198 figs., index. Original tan cloth, red-stamped cover and spine titles; covers soiled. Ownership signature of James Algernon Darsie ... Easton, Pa., Lafayette College, 1906, with pencil marks on verso of title-page. Ads from Queen & Co., microscopes. Very good. Scarce. \$ 10



147. **STOKES, Alfred Cheatham.** *Microscopy for Beginners or common objects from the ponds and ditches. Illustrated.* New York: Harper & Brothers, 1887. ¶ Sm. 8vo. xiii, 308, 12 pp. 178 figures, glossary, index; occasional offsetting. Original maroon gilt-stamped cloth. Very good. Rare. \$ 65

Circulation: 5,000 Copies.

[1291-1342] Telephone No. 715 Victoria.

Telegraphic Address: "S.P. Palatable, London."

JOURNAL OF THE Society of Chemical Industry.

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 94850.

Scottish Section.

Meeting held at Glasgow on Tuesday, October 24th, 1911.

PROFESSOR THOMAS GRAY IN THE CHAIR.

EFFECT OF THE BLEACHING PROCESS ON THE WEIGHT AND STRENGTH OF TEXTILES.

BY S. H. HIGGINS, M.Sc.

It has been shown that the bleaching process, if properly carried out, has little or no deleterious effect on the strength of the cotton fibre. Thus O'Neill showed that in some cases the strength of individual warp threads increased as much as 15 per cent. after bleaching, while in other cases there was a decrease to only 60 per cent. of the original strength. In the present author's experience, this alteration in strength entirely depends on the cleanliness of the grey cloth or yarn. If the yarns are well sized and contain much foreign matter then the bleaching process causes a decrease in strength, because the removal of this matter clinging to the fibres causes the structure of the yarn to be disturbed; but if the yarn is a clean one there is no such diminution in strength. Similar remarks apply to loss in weight during bleaching, a pure yarn showing little change and an impure yarn a much greater loss in weight.

Any increase in tensile strength produced in the bleaching process the author finds always takes place during the boiling operation (*vide* Hübner and Pope, this J., 1903, 22, 70). It is evident that during this operation there is a more effective binding of the fibres and thus a consolidation of the threads. The author conducted a series of tests on the loss in strength and weight of linen fabrics during the bleaching process and obtained the following results:—

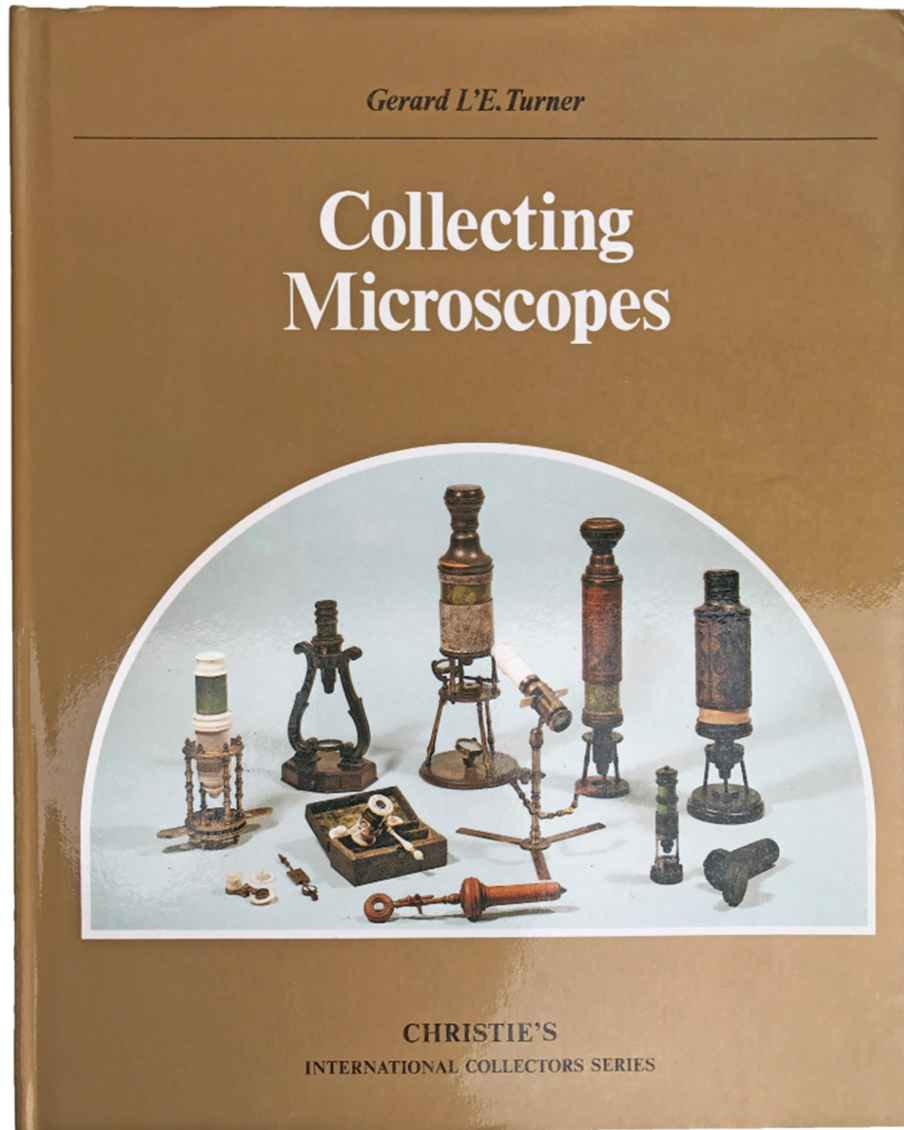
	Weight.	Loss
	grms.	per cent.
Example 1. Brown linen	92.1	—
After steeping	85.7	3.8
" lime boiling	77.15	16.2
" lye boiling	70.93	22.9
" chemising	69.53	24.5
Fully bleached	67.52	26.7
	Per cent.	
Example 2. Loss on lime boil	9.6	
3. " " lye boils	15.9	
4. " " " "	15.15	
5. " " " " chemic and sour	1.44	

The results show that the decrease in weight takes place principally in the preliminary boiling, before the bleaching

148. [Textiles] Society of Chemical Industry; HIGGINS, S. H. [2 papers]
 Effect of the Bleaching Process on the Weight and Strength of textiles;
 Bleaching Faults: the Tendering of Linen Fabrics due to Metallic Oxides.
 London: Society of Chemical Industry, 1911. ¶ Series: Journal of the Society of
 Chemical Industry, no. 22, vol. XXX, November 30, 1911. 4to. pp. 1291-1342.
 figs. Original printed wrappers. Very good. \$ 35



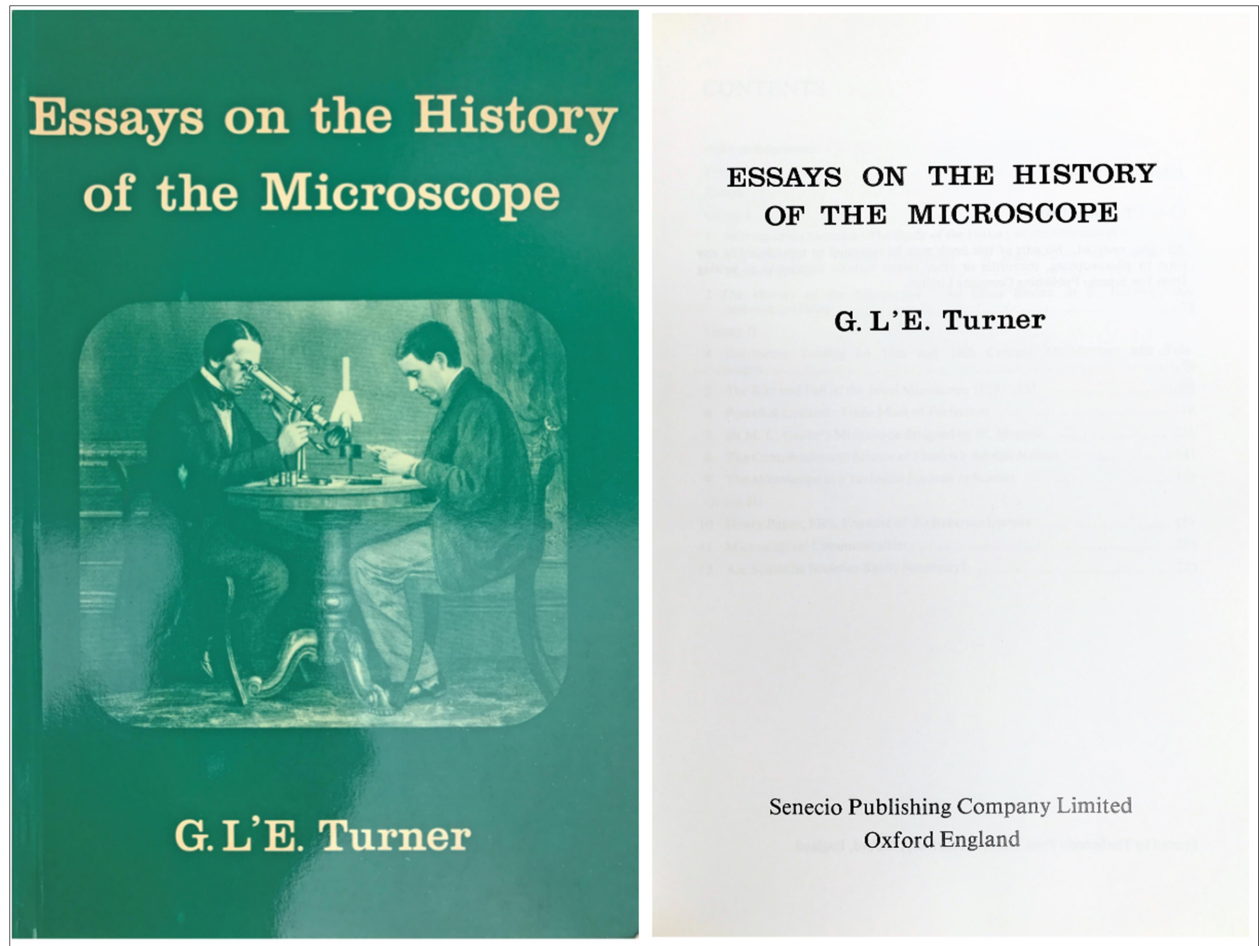
149. **TOMLINSON, Rev. Lewis.** *Recreations in Astronomy.* London: John W. Parker, 1840. ¶ Small 8vo. vii, [1], 340, [4] pp. 58 figures (including frontis.), index; marginal tears: pp. 297, 305. Original blind- and gilt-stamped dark green-blue cloth. Bookseller's early rubber-stamp. Very good. Scarce. \$ 75



150. **TURNER, Gerard L'Estrange** (1926-2012). *Collecting Microscopes*. *Christie's International Collectors Series*. New York: Mayflower Books, (1981). ¶ First American edition. 26 cm. 120 pp. Frontis., illustrated, mostly in color. Brown stamped beige cloth, dust jacket. Fine. ISBN: 083175950X

\$ 45

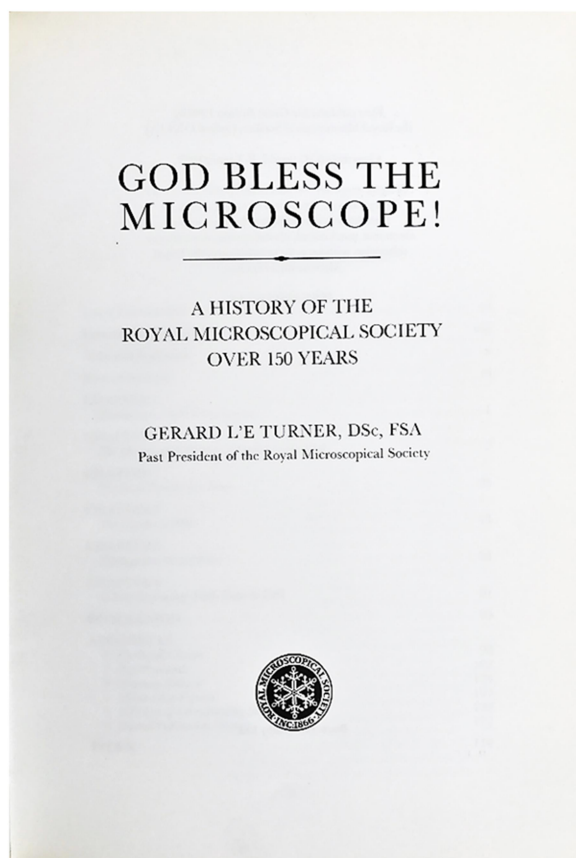
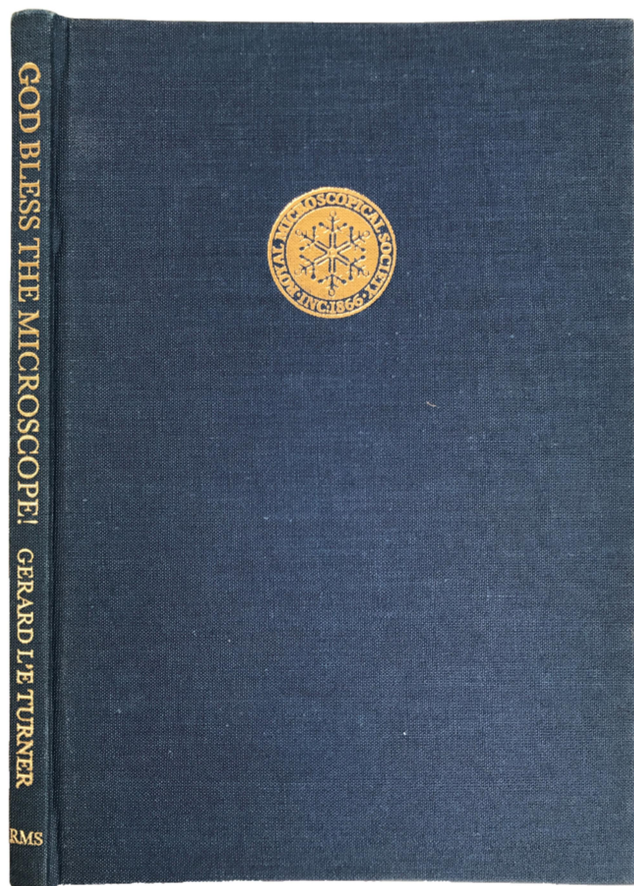
A fine primer on microscope collecting, with plates showcasing the history of microscope design and practice.



151. **TURNER, Gerard L'Estrange** (1926-2012). *Essays on the History of the Microscope*. Oxford: Senecio, (1980). ¶ 8vo. 245 pp. Profusely illustrated. Green printed wrappers. Fine. ISBN 10: 0906831016

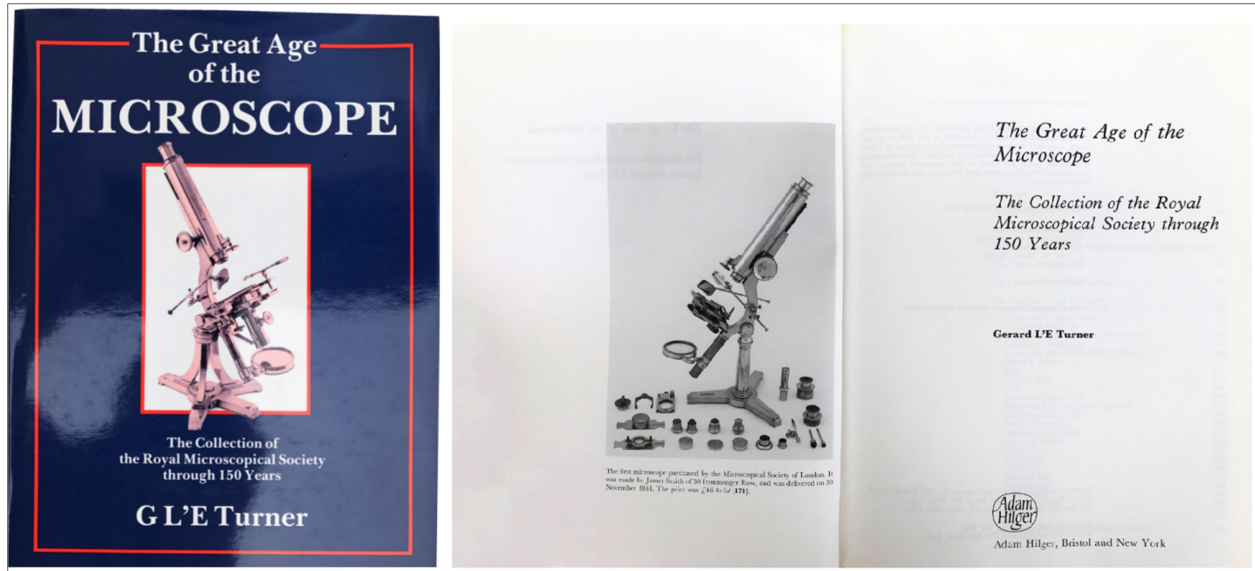
\$ 95

CONTENTS: 1 Micrographia historica : The Study of the History of the Microscope -- 2 The History of Optical Instruments : A Brief Survey of Sources and Modern Studies -- 3 The History of the Microscope : An Essay Review of P. Harting, *Das Mikroskop* (1866) -- 4 Decorative Tooling on 17th and 18th Century Microscopes and Telescopes -- 5 The Rise and Fall of the Jewel Microscope 1824- 1837 -- 6 Powell & Lealand : Trade Mark of Perfection -- 7 Dr M. C. Cooke's Microscope designed by W. Moginie -- 8 The Contributions to Science of Friedrich Adolph Nobert -- 9 The Microscope as a Technical Frontier in Science -- 10 Henry Baker, FRS, Founder of the Bakerian Lecture -- 11 Microscopical Communication -- 12 Are Scientific Societies Really Necessary?



152. **TURNER, Gerard L'Estrange** (1926-2012). *God bless the microscope!: a history of the Royal Microscopical Society over 150 years*. Oxford: Royal Microscopical Society, 1989. ¶ 8vo. xi, 116 pp. 48 illustrations, index. Navy gilt-stamped cloth. Fine. ISBN: 095024634 \$ 45

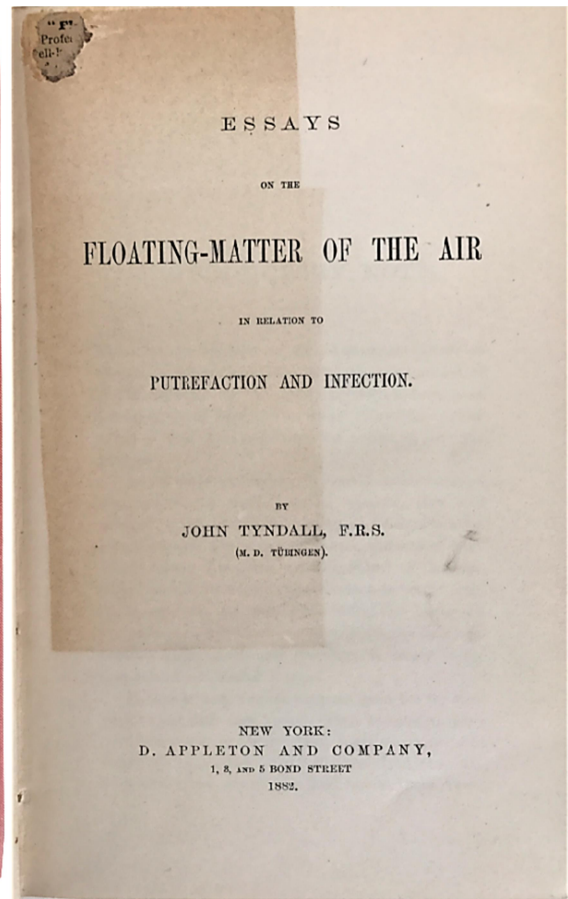
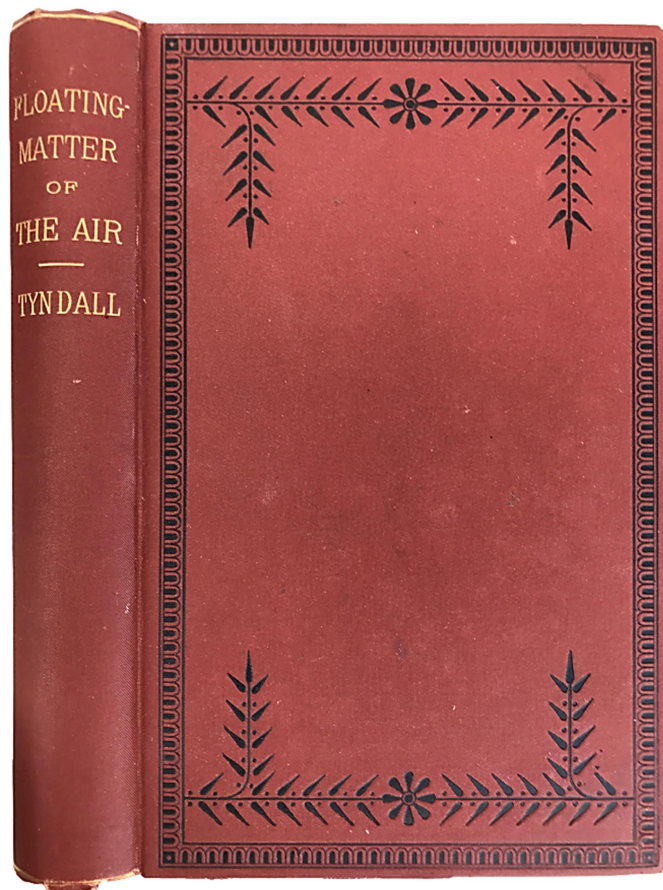




153. **TURNER, Gerard L'Estrange** (1926-2012). *The Great Age of the Microscope; The Collection of the Royal Microscopical Society through 150 Years*. Bristol & New York: Adam Hilger, 1989. ¶ Large 8vo. ix, 379 pp. Profusely illustrated, index. Blue gilt-stamped cloth, dust-jacket. Fine. ISBN 10: 0852740204

\$ 95

CONTENTS: Making microscopes - the nineteenth century European trade; the collection assessed; advice to the user of the catalogue; compound - British 1/4 18th C; compound - Culpeper-type; compound - Cuff-type; compound - British 18th century - 1/4 19th century; compound - Gould-type; compound - British 2/4 19th century - 20th century; Powell and Lealand; Ross; Smith and Beck; Swift; compound - non-British; projection - universal, solar, lucernal; reflecting microscopes; simple microscopes; specimen preparation; specimen holders; illumination; polarization; objectives; micro-ruling; RMS standards; medals.



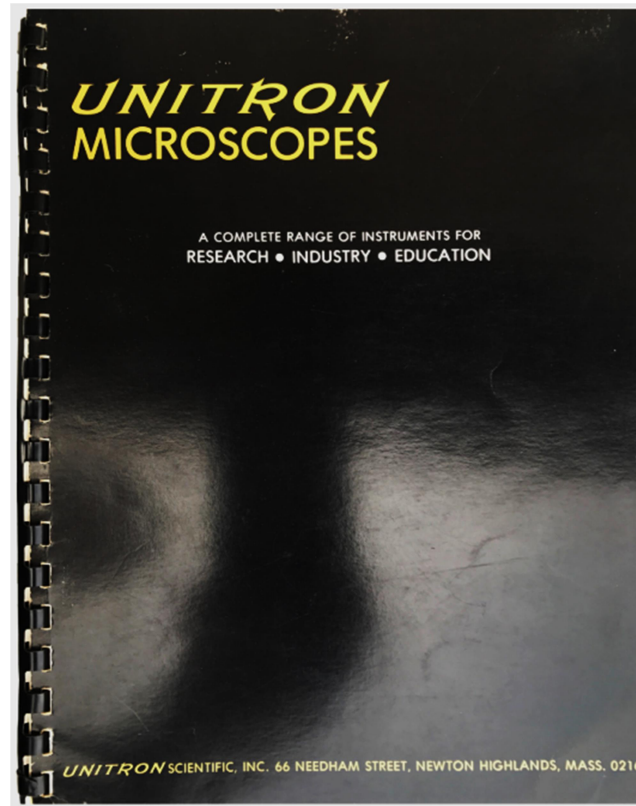
154. **TYNDALL, John** (1820-1893). *Essays on the floating-matter of the air in relation to putrefaction and infection*. New York: D. Appleton, 1882. ¶ Small 8vo. xix, [1 blank], 338, [ads 4] pp. 24 figs.; offsetting with fragment of old newsprint remaining on title. Original black- and blind-stamped brick red cloth, gilt spine. Ownership signature of O. Harvey. Near fine. A lovely copy.

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FIRST AMERICAN EDITION. Tyndall's great work on putrefaction and sterilization. "Tyndall interested himself in atmospheric germs and dust. His experiments on sterilization by heat led him to the discovery in 1877 of fractional sterilization (Tyndallization). His work on the subject is included in the above book, in which he also described the bactericidal effects of moulds. The researches of Tyndall, even more than those of Pasteur, dealt the final blow to the doctrine of spontaneous generation; they were fundamental for the progress of bacteriology." [Garrison & Morton]

Gascoigne 15199.1; Bulloch, *History of bacteriology*, pp. 109-117. *Barchas Collection* 2055 (1st ed., London, 1881); *BM (Nat. Hist.)*, V, p. 2158 (wanting, 1st ed., London, 1881);

Cushing T200 (2nd ed., 1883); Garrison and Morton 2495 (1st ed., London, 1881); *Haskell Norman Library* 2119 (1st ed., London, 1881); *Heirs of Hippocrates* 1881 (1st ed., London, 1881).

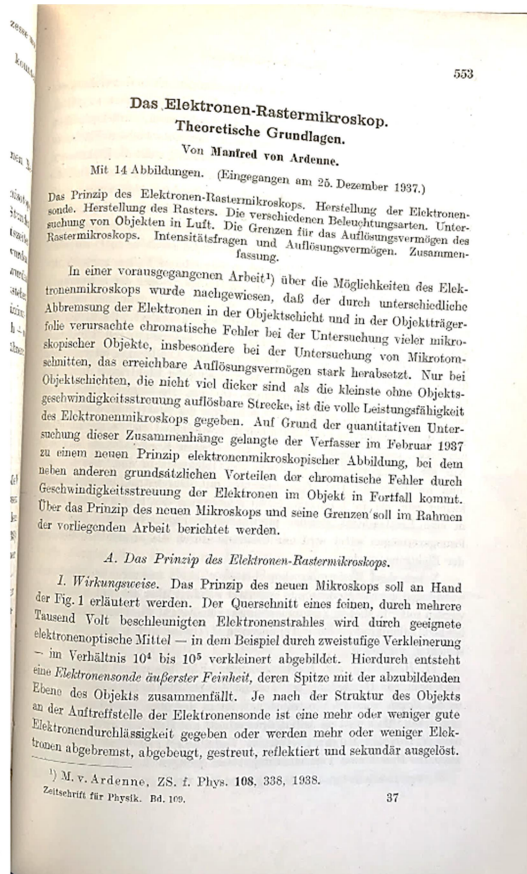
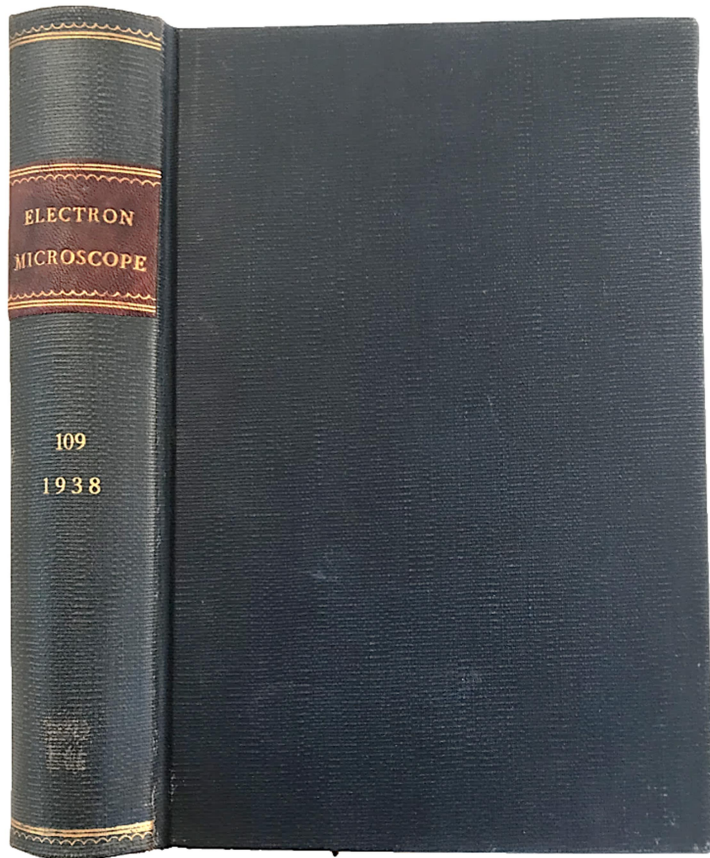


155. **[Microscopes] Unitron Scientific, Inc., Newton Highlands, Mass.**

Unitron Microscopes; a complete range of instruments for research, industry, education. Newton Highlands, Mass. Unitron Scientific, [1960s]. ¶ 28 cm. [34] ff. Illustrated. Original black printed spiral-bound wrappers. Very good.

\$ 20

Unitron, was formerly named United Scientific Company. “UNITRON® specializes in high quality, precision instruments for industrial, metallurgical, materials science, research and educational applications. Since 1952, UNITRON microscopes and related optical accessories have been consistently used and trusted worldwide in highly prestigious companies. Upon receipt in their New York warehouse, each of the high quality microscopes are unpacked, assembled and individually tested and inspected by a team of technicians to ensure compliance with the strict quality standards they have set over the past 60 years.”



156. **VON ARDENNE, Manfred** (1907-1997). "Das Elektronen-Rastermikroskop. Theoretische Grundlagen." In: *Zeitschrift für Physik*, Vol. 109, 1938. Berlin: Julius Springer, 1938. ¶ 8vo. Pages 553-572. [Entire volume: viii, 776 pp.] 14 figs., 3 tables. Navy cloth, brown leather spine label, gilt spine. Blind-stamp of the Carnegie Institution of Washington, Mount Wilson Observatory. Fine. [S6562]

\$ 125

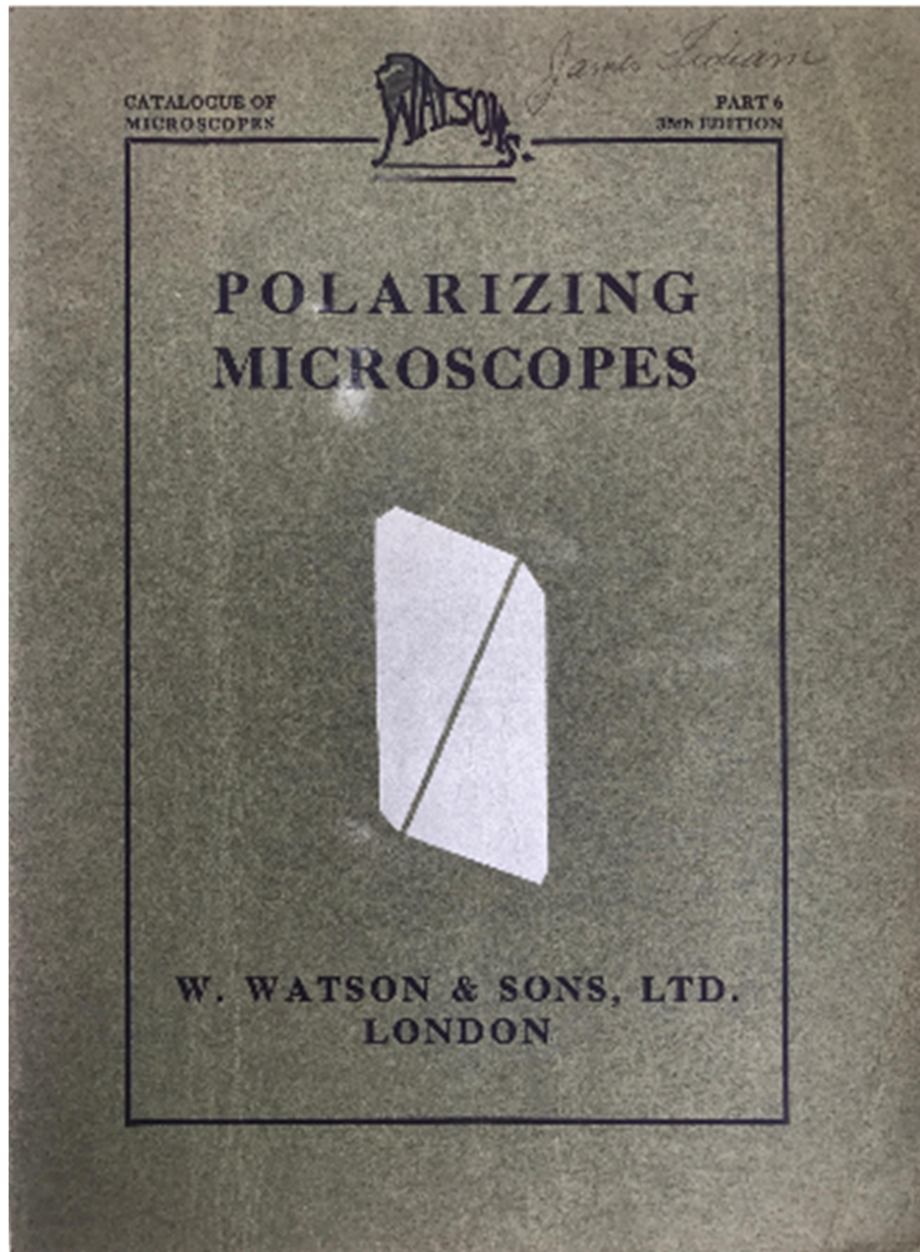
FIRST PRINTING. The First Electron Microscope. "The first scanning electron microscope was built by Von Ardenne in 1938." Collard. The Scanning Transmission Electron Microscope "was conceived and realized in prototype form by von Ardenne in Berlin in 1938." Brown, Pais & Pippard. Brown, Pais, Pippard, *Twentieth century physics*, III, pp. 1587-1589; Collard, *The development of microbiology*, p. 25; Von Ardenne, in: Hawkes, ed., *The beginnings of electron microscopy*.



157. **WARD, Hon. Mrs. Mary** (1827-1869). *The Microscope, or descriptions of various objects of especial interest and beauty, adapted for microscopic observation: with directions for the arrangement of a microscope, and the collection and mounting of objects.* London: Groombridge and Sons, 1876. ¶ Fourth edition. Small 8vo. iv, 154 pp. 8 color lithographic plates (including frontispiece), 25 figures, index. Original full black- and gilt-stamped dark blue cloth, all edges gilt; top spine frayed. Given as a Prize for Arithmetic, Bedford College, 1877. Very good.

\$ 45

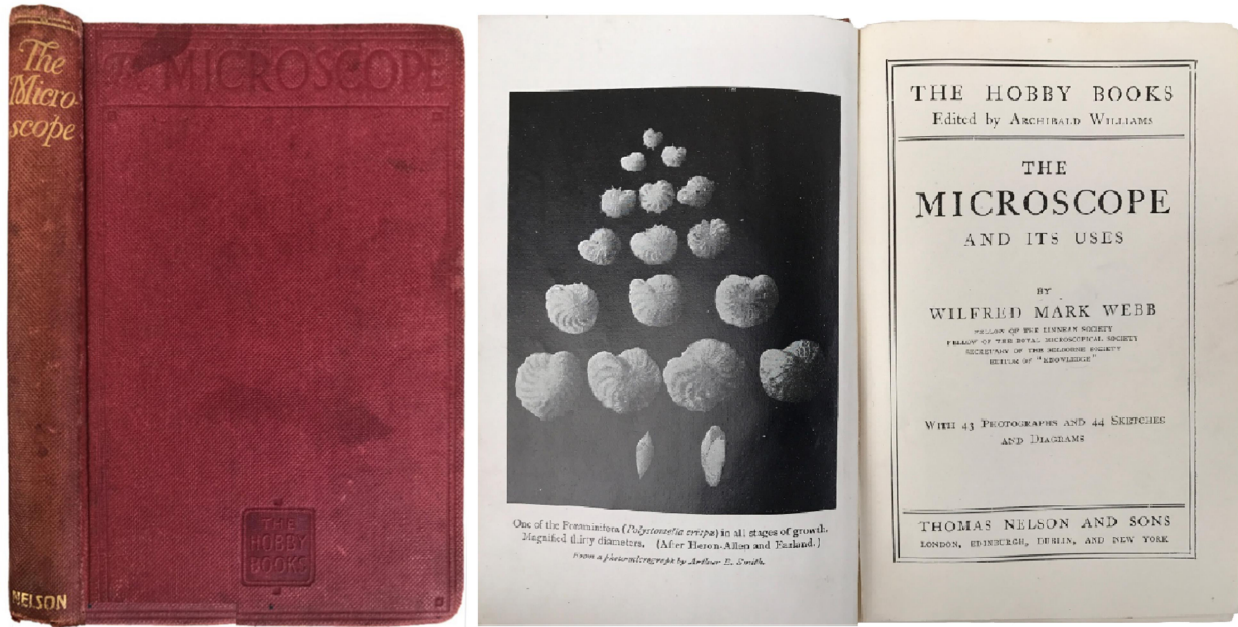
Mary Ward, author, artist, astronomer and microscopist, was tragically killed when she was thrown from the vehicle and fell under the wheels of an experimental steam car built by her cousins, being William Parsons' sons who had built a steam-powered car. As the event occurred in 1869, she is the first person known to have been killed by a motor vehicle.



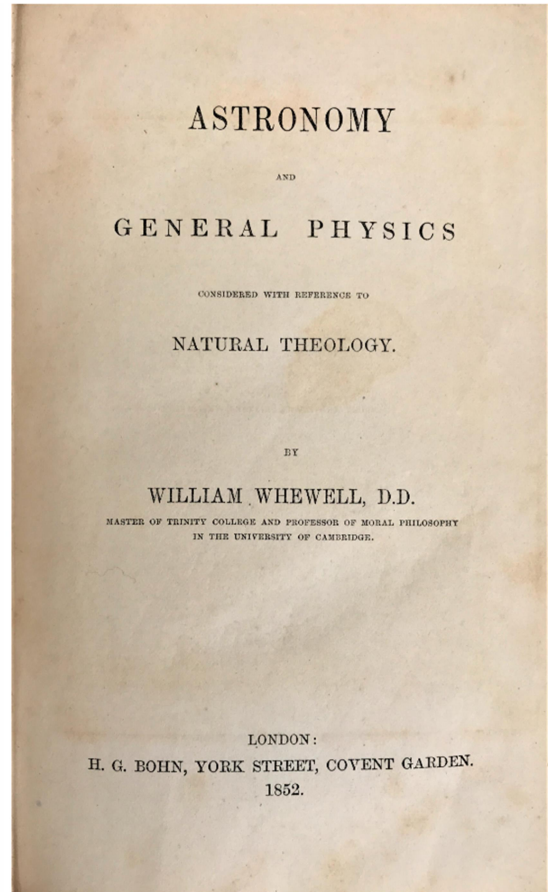
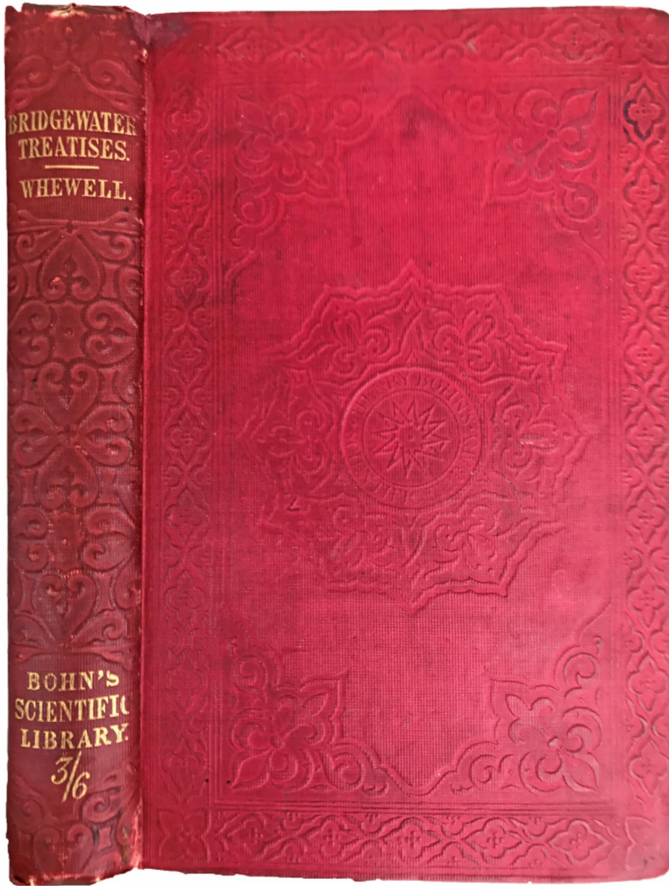
158. **WATSON & Sons, Ltd., W., London.** *Polarizing Microscopes. Catalogue of Microscopes. Part 6. 35th edition.* W. Watson & Sons, Ltd. *Manufacturers of Scientific and Optical Instruments.* London: Watson, [n.d.]. ¶ 8vo. [601]-632 pp. Illustrated. Original olive silver & black printed wrappers; crease to upper cover. Ownership signature of James Fidiann. Very good. RARE.

\$ 95

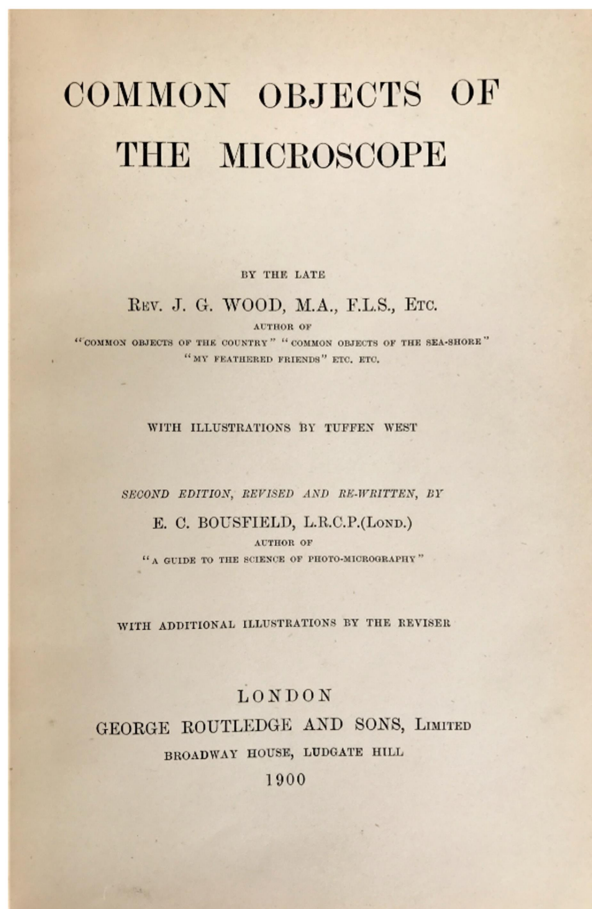
The company operated from this address: 313 High Holborn, London WC1, England, from 1888–1958. The brochure offered here is from the early 20th century.



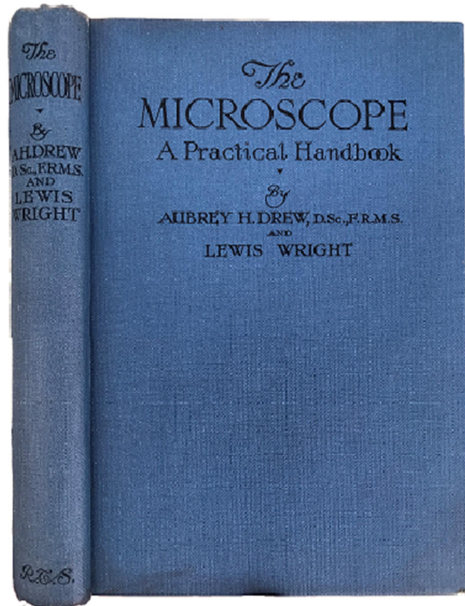
159. **WEBB, Wilfred Mark.** *The Microscope and its Uses.* London: Thomas Nelson and Sons, [n.d. 1920?]. ¶ Series: The Hobby Books, ed. Archibald Williams. 12mo. 252 pp. 43 photographs, 44 sketches & diagrams, index. Red gilt and blind-stamped cloth; corner showing, spine end frayed. Very good. \$ 14



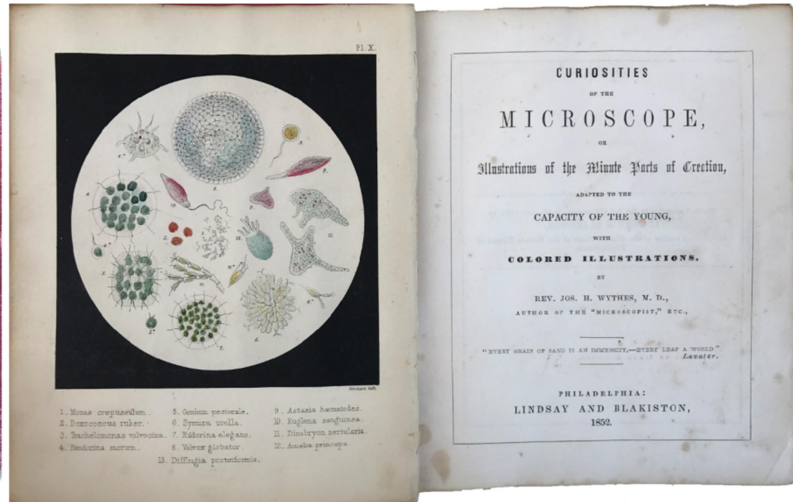
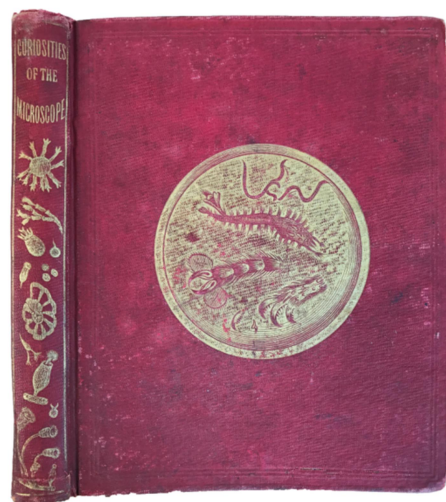
160. **WHEWELL, William** (1794-1866). *Astronomy and General Physics considered with reference to natural theology*. London: H. G. Bohn, 1852. ¶ Series: Bohn's Standard Library. Small 8vo. viii, 328, 32 pp. Half-title, engraved frontispiece. Original blind and gilt-stamped red cloth; light wear to extremities. Ownership signature of B. S. Miller. Very good. \$ 45



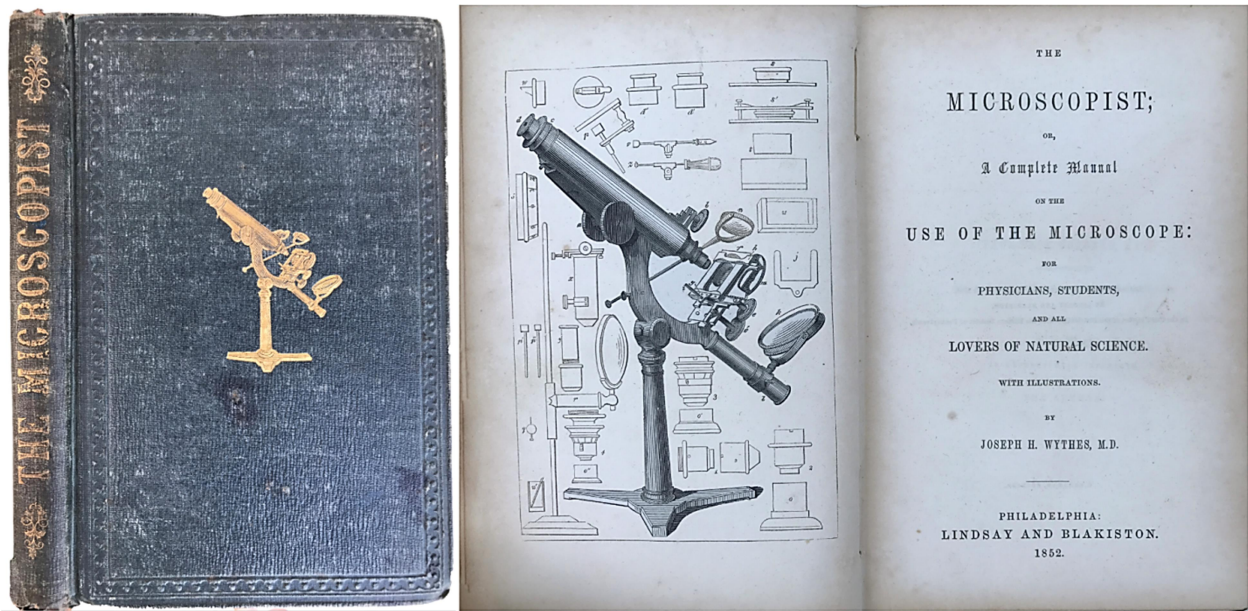
161. **WOOD, Rev. John George; Edward Collins BOUSFIELD.** *Common Objects of the Microscope.* With illustrations by Tuffen West. Second edition, revised and rewritten by E. C. Bousfield. With additional illustrations by the reviser. London: George Routledge & Sons, 1900. ¶ Small 8vo. x, [2], 186 pp. 14 plates (mostly full color), 16 figures, index. Original two-tone cloth; rubbed. Very good. \$ 20



162. **WRIGHT, Lewis** (1838-1905); **Aubrey H. DREW**. *The Microscope; a practical handbook. Enlarged and rewritten.* London: The Religious Tract Society, [1922]. ¶ Small 8vo. 287, [5] pp. 195 figures (incl. color frontispiece), index, ads. Light blue black-stamped cloth. Near fine. \$ 20



163. **WYTHES, Joseph H.** (correctly: **Joseph Henry Wythe, M.D.**), (1822-1901). *Curiosities of the Microscope, or Illustrations of the minute parts of creation, adapted to the capacity of the young, with colored illustrations.* Philadelphia: Lindsay and Blakiston, 1852. ¶ 12mo. [in 6s]. viii, [9]-132 pp. 13 colored lithographic plates, glossary. Original full red blind- and gilt-stamped cloth, all edges gilt; light wear to extremities. Very good. \$ 125




164. **WYTHES, Joseph H. (correctly: Joseph Henry Wythe, M.D.),** (1822-1901). *The Microscopist; or, a complete manual on the use of the microscope: for physicians, students, and all lovers of natural science.* Philadelphia: Lindsay and Blakiston, 1852. ¶ 12mo. [in 6s]. x, [3], 14-191, [1] pp. Frontispiece (large microscope), 55 figures, index; some browning to extremities throughout. Dedicated to Paul Beck Goddard, M.D. (1811-66). Original green blind- and gilt-stamped cloth; rubbed, extremities showing light wear. Note the error on the title of the author's last name spelling [should be WYTHER]. Very good.

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Joseph Henry Wythe, M.D., served as president of Willamette University from 1865 to 1868. He presided over the organization of the university's medical department and was on the first faculty to provide medical education in the Pacific Northwest.

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Edition 1927.

PAGE 6 CARL ZEISS
JENA MIKRO 373

Method of Employing the 'Phoku' Attachment for obtaining Photo-micrographs of the Capillaries in the Limbus of the Finger Nail after Siedentopf.

Our Photographic 'Phoku' Eyepiece cannot be used in conjunction with the Skin Microscope ('Mikro 363'), the latter being adapted for visual observation only. In order to obtain photo-micrographs of the capillaries of the skin it became necessary to devise a separate arrangement, as shown in the annexed illustration.

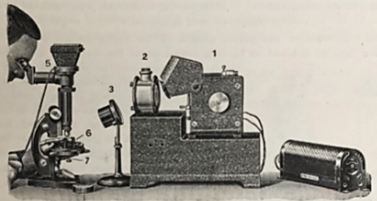


Fig. 3. 11725

The source of light takes the form of a raised 5-ampère arc lamp (1). The light rays emitted by the lamp pass through a converging lens and emerge from it in the form of a pencil of approximately parallel rays in a downward direction of about 25°. They traverse a cooling trough (2) filled with a solution of Mohr's salt (prepared in accordance with the recipe given on page 8), and then pass through a second inclined convergent lens (3) with iris-diaphragm, so that at a distance of 130 mm in front of the second lens they form an image of the luminous crater above the middle of the object stage of the microscope set up at that point. Upon the converging lens (3) is placed a light filter of green blue (4) which mainly transmits rays of 510 to 550 $\mu\mu$, thereby neutralising the natural red of the digital capillaries. In the microscopic image the capillaries, thus illuminated obliquely from above, appear dark on a light green ground with sufficient contrast to be photographed by the aid of the 'Phoku' attachment (5) on green-sensitised instantaneous plates. The part of the skin which is to be photographed should be coated with thick tacky cedarwood oil so as to render it optically flat.

165. **ZEISS, Carl.** Zeiss Phoku. Mikro 373. Jena: Carl Zeiss, 1927. ¶ 25
 cm. 8 pp. 3 figs. Self-wraps. Fine. The 'Phoku' Photographic
 Eyepiece serves for obtaining, during observation, photo-
 micrographs on [glass] plates.

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ZEISS

Binocular Tube Attachment

with inclined eyepieces

'Bitukni'



Fig. 1

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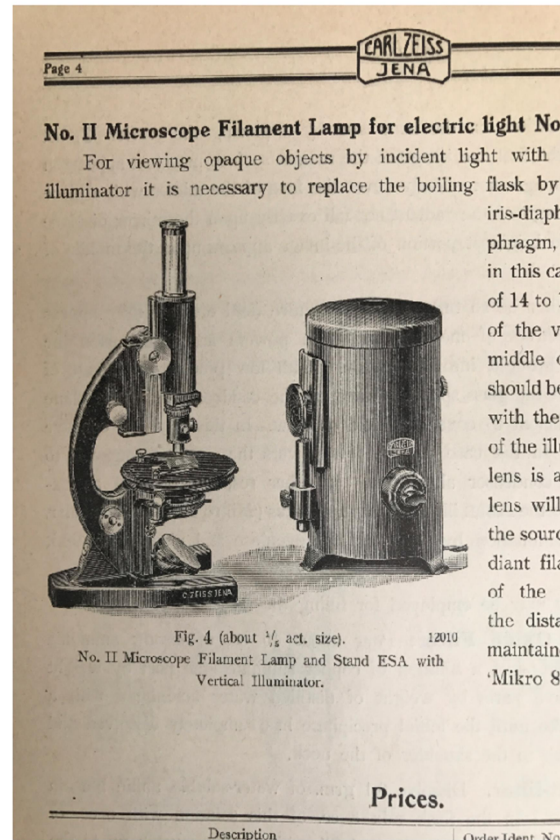
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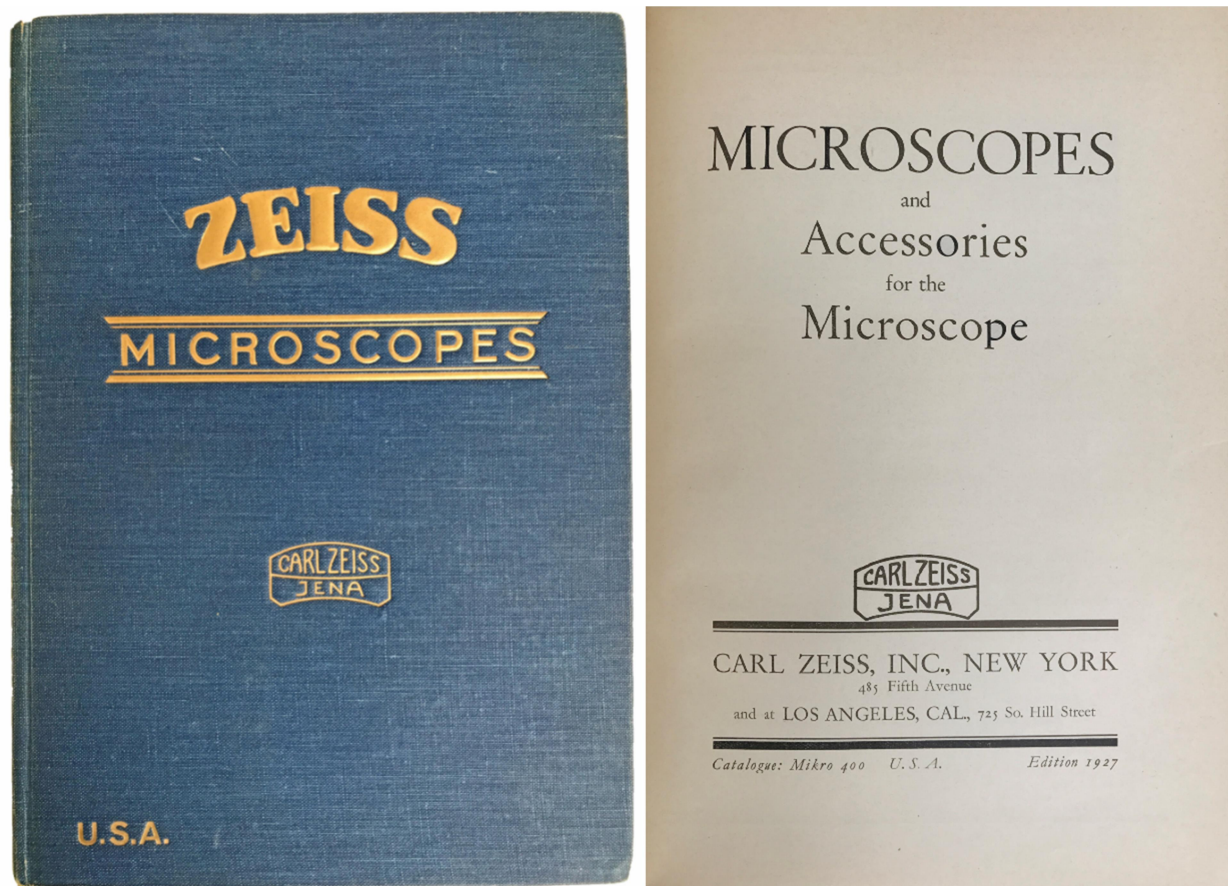
Established 1846
5100 Employees

Referenz: Mikro 412 U. S. A.

166. **ZEISS, Carl.** Binocular Tube Attachment with inclines eyepieces 'Bitukni'. Mikro 412. Jena: Carl Zeiss, [ca.1927]. ¶ 25 cm. 4 pp. 4 figs. Self-wraps. Fine. \$ 25



167. **ZEISS, Carl.** Incandescent Microscope Lamps; Microscope filament lamp no. 1 for electric light, no. 13 93 21. Mikro 322. Jena: Carl Zeiss, 1928. ¶ 25 cm. 4 pp. 4 figs. Self-wraps. Fine. \$ 25



168. **ZEISS, Carl.** *Microscopes and Accessories for the Microscope.* Catalogue: Mikro 400. New York and Los Angeles: Carl Zeiss, 1927. ¶ Tall 8vo. 109 pp. Illustrated. Original blue gilt-stamped cloth; small nick on upper edge, corners showing. Very good. Scarce.

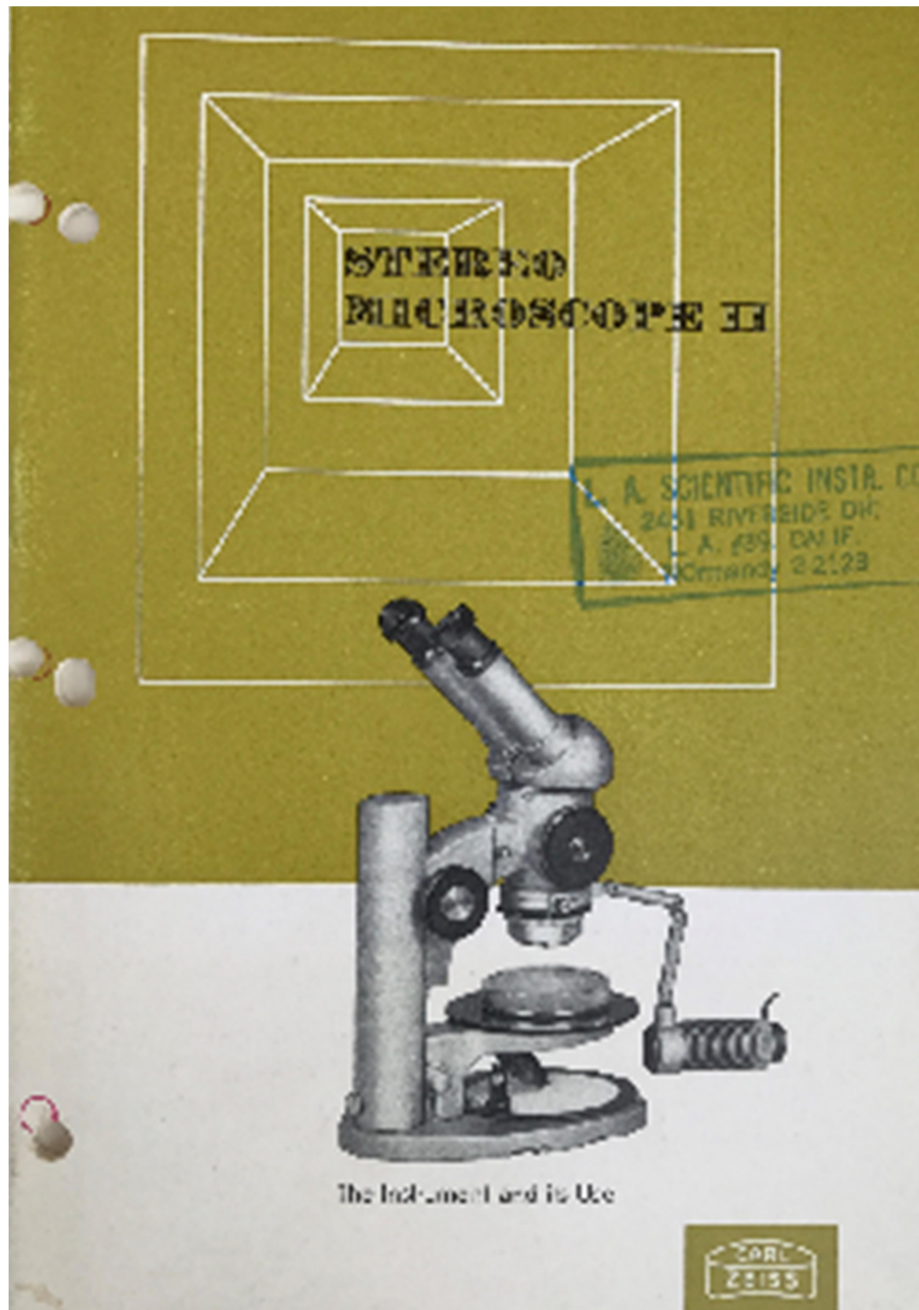
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169. **ZEISS, Carl; K. MICHEL.** *Zeiss Laboratory Microscope: Model KF.* Oberkochen, Württemberg: Zeiss, n.d. [ca.1960s]. ¶ 21 cm. 11 pp. Illustrated. Printed orange wrappers. Rubber-stamp on cover. Fine. Serial no.: 40-130/III e USA. RARE. \$ 150



170. **ZEISS, Carl; K. MICHEL.** *Photomicroscope.* Oberkochen, Württemberg: Zeiss, n.d. [ca.1960s]. ¶ 21 cm. 10 pp. Illustrated. Printed wrappers. Fine. Serial no.: 40-430/II-e. RARE. \$ 150



171. **ZEISS, Carl; K. MICHEL.** *Stereo Microscope II; the instrument and its use.* Oberkochen, Württemberg: Zeiss, n.d. [ca.1960s]. ¶ 21 cm. 31 pp. 27 illustrations. Printed yellowish-green wrappers; twice punched for 3-ring binder, else fine. Serial no.: G 40-705-e. Rubber-stamp on cover. RARE. \$ 125

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