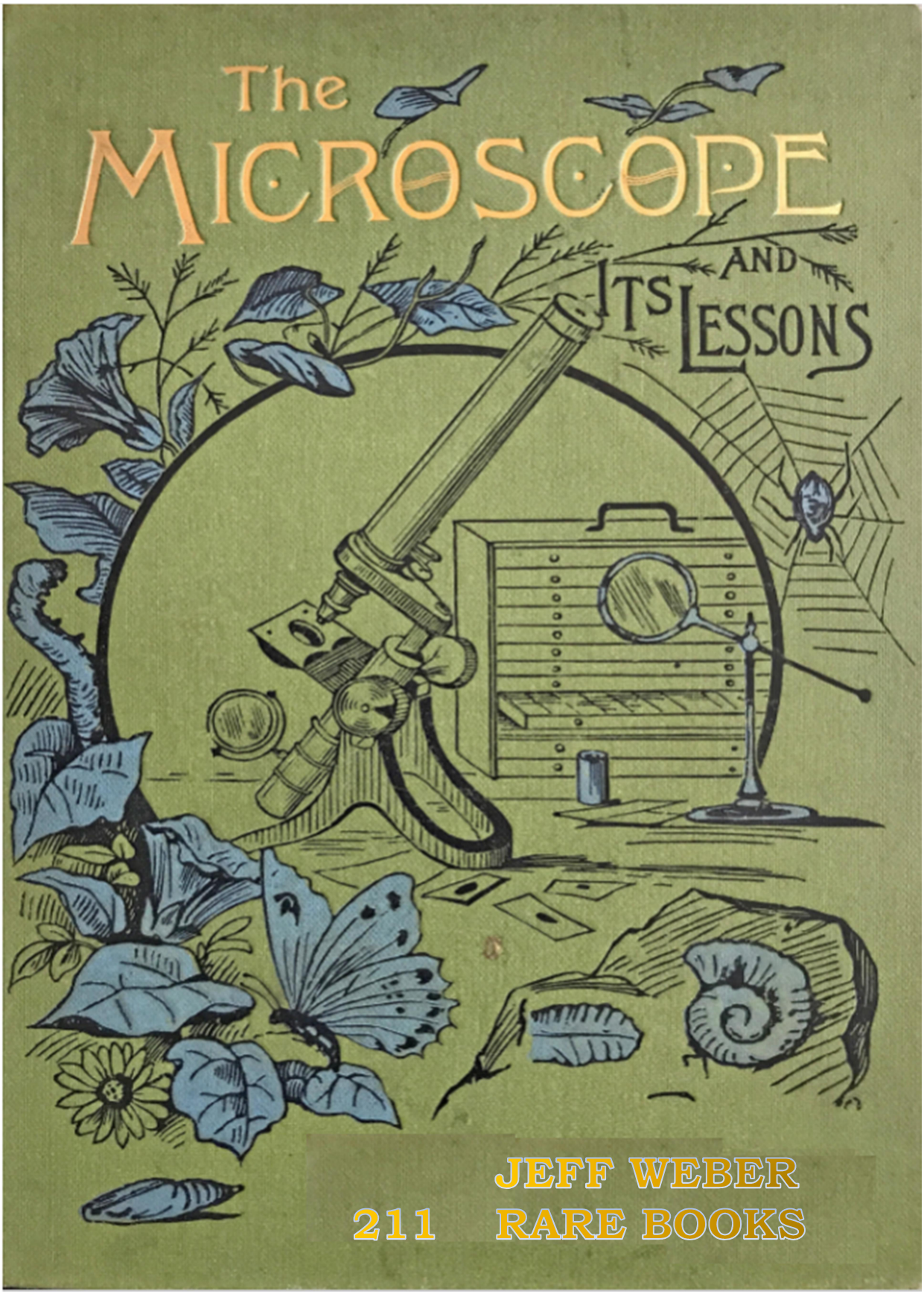
The MICROSCOPE AND ITS LESSONS



RECENT ACQUISITIONS RELATING TO MICROSCOPY, THE LURE OF THE MICROSCOPE & OTHER SCIENTIFIC INSTRUMENTS

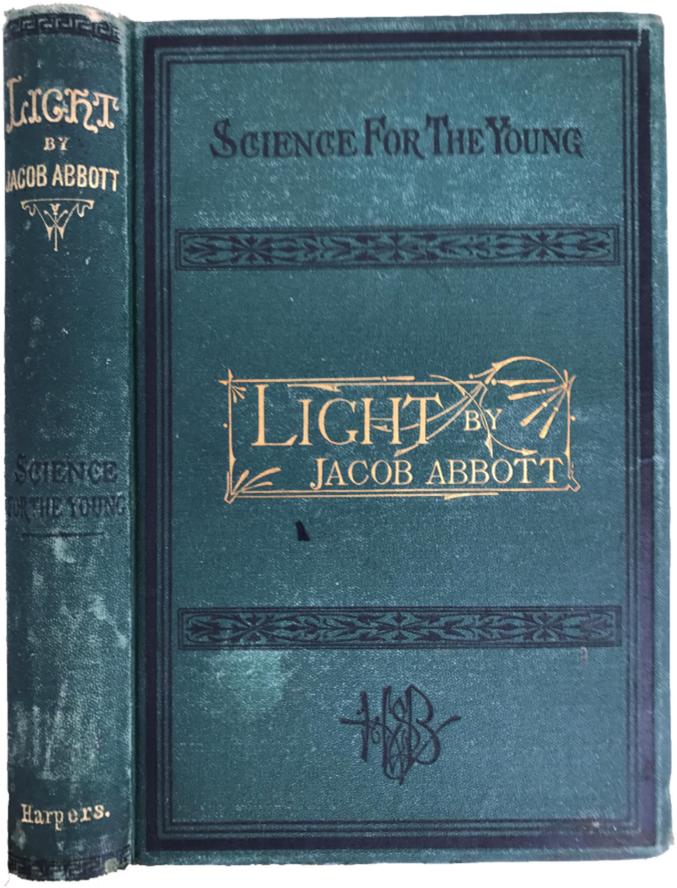
From the Libraries of Richard M. Jefts & Alan de Haas

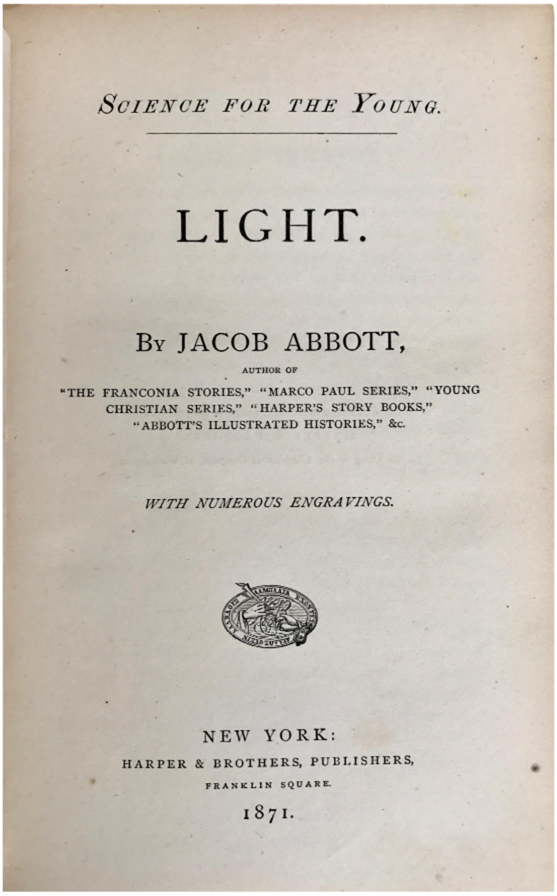
MORE PHOTOGRAPHS OF BOOK STOCK AVAILABLE ON-LINE

CATALOGUE 211

LAWRENCE AND JOHN.

[Abbott]





Science for the Young.

LIGHT.

By JACOB ABBOTT,

AUTHOR OF

"THE FRANCONIA STORIES," "MARCO PAUL SERIES," "YOUNG CHRISTIAN SERIES," "HARPER'S STORY BOOKS," "ABBOTT'S ILLUSTRATED HISTORIES," &c.

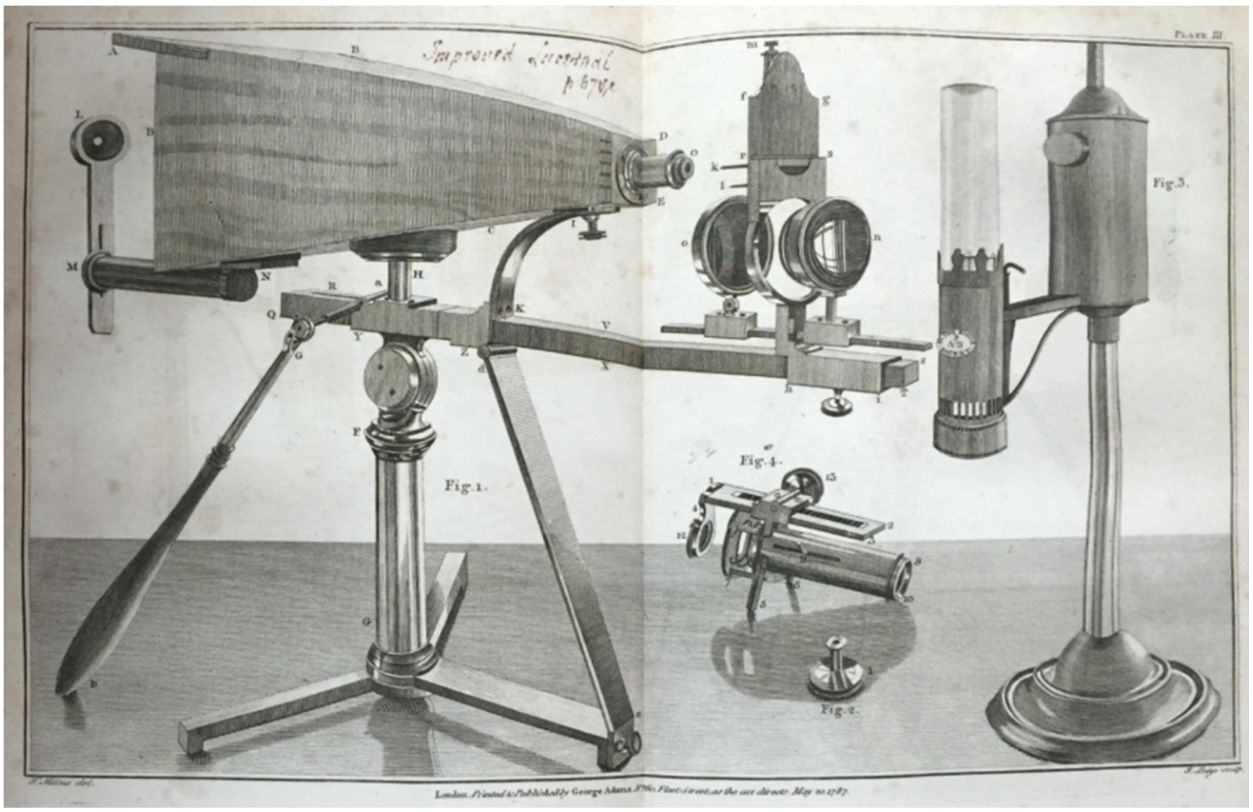
WITH NUMEROUS ENGRAVINGS.

NEW YORK:
HARPER & BROTHERS, PUBLISHERS,
FRANKLIN SQUARE.
1871.

1. **ABBOTT, Jacob** (1803-1879). *Light. With numerous engravings*. New York: Harper & Brothers, 1871. ¶ Series: Science for the Young, vol. II. Small 8vo. xii, (13)-311, 4 pp. Engravings, ads. Original full black and gilt-stamped cloth; rubbed, spine ends frayed. Two bookseller ownership marks. Very good.

$ 25

Thirty-two chapters on various aspects of light, optics and electricity or magnetism (light speed, candle light, specters and ghosts, magnesium lamp, the electric lamp, color, the eye, lighting by gas, etc.

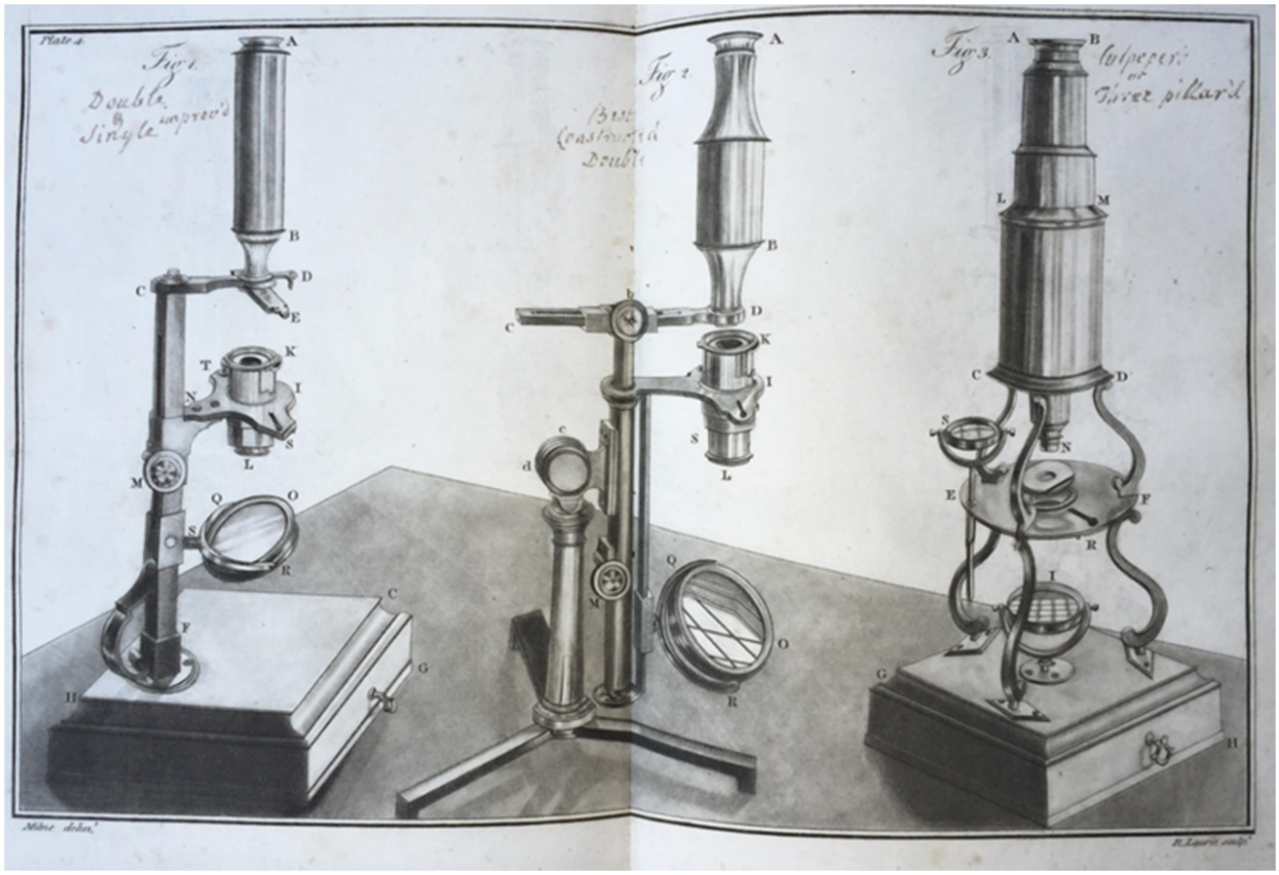


2. **ADAMS, George, Jr**. (1750-1795). *Essays on the Microscope; Containing a Practical Description of the Most Improved Microscopes … The second edition, with considerable additions and improvements*. London: Printed by Dillon and Keating, for the Editor, 1798.

2 vols. bound in one (i.e. with Atlas dated 1787). 4to. xvii, [vii], 724, 14, 2 pp. 32 engraved double-page plates, with the allegorical frontispiece mezzotint (dated 1787), "Truth discovering to Time, Science, instructing her children in the improvements of the microscope," after T.S. Duchè, with the folded title-page for the Atlas of plates, errata, list of plates (numbered 1-31; with 26A and 26B, making 32), index; occasional foxing. Original half calf by Hering (with his stamp: "Bound by Hering, 9 Newman St [London]"); worn, inner joints reinforced with kozo. Bookplates of Max Erb and armorial bookplate William Seymour [with Arms of Seymour: Gules, two wings conjoined in lure or, descended from William Seymour, Duke of Somerset (1588-1660)], with motto " mens invicta manet" or, "the mind remains unconquered". Very good. [S13101]

$ 2,500

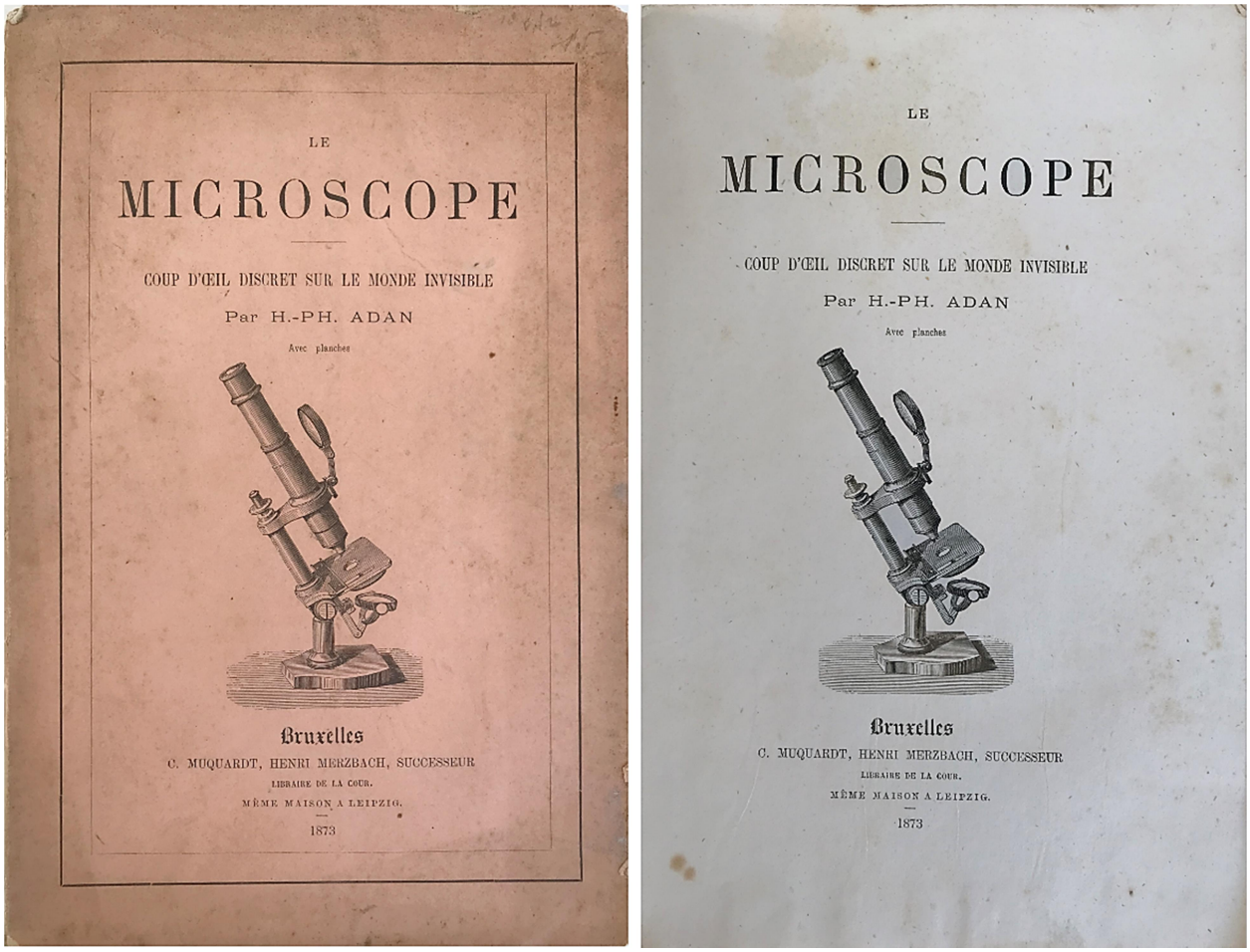
SECOND EDITION, enlarged, with the first issue of the frontispiece plate and first of the Atlas title. This work is a most thorough treatment on microscopy, reviewing the history of the topic, of optics, a description of microscope instruments, before entering into describing various items from nature. Adams states "When I first undertook the present essays, I had confined myself to a re-publication of my father's work, entitled, MICROGRAPHIA ILLUSTRATA; but I soon found that both his and Mr. Baker's tracts on the microscope were very imperfect. Natural history had not been so much cultivated at the period when they wrote, as it is in the present day... I have in the fifth chapter, after some general observations on the utility of natural history, endeavoured to remedy their defects, by arranging the subject in systematic order, and by introducing the microscope reader to the system of Linnaeus, as far as relates to insects: by this he [the reader] will learn to discriminate one insect from another, to characterize their different parts, and thus be better enabled to avoid error himself. And to convey instruction to others." (pp. x-xi). Adams, being "seduced" by these "little creatures" expanded his descriptions of them. With chapter six he bases his discussion of insects on the work of Lyonet (1742), focused on the caterpillar of the Phalaena Cassus.



Adams, Jr. (1750-1795), son of well-known instrument-maker George Adams (1709-1772), both instrument makers to the king. He was an optician, instrument maker (to George III) and prolific writer on instruments and scientific issues. Gee notes that Adams had studied Louis Joblot on the microscope and animalculae and Abraham Trembley on the polyp.

PROVENANCE: William Seymour – Max Erb, of Max Erb Instruments, Santa Ynez, California. This company started in 1954 and specializes in microscopes.

☼ See: *DNB*; Brian Gee, *Francis Watkins and the Dollond Telescope Patent Controversy*, Ashgate, 2014, p. 67; John R. Millburn, *Adams of Fleet Street: instrument makers to King George III*, Aldershot: Ashgate, 2000.



Seeing the Invisible World
INSCRIBED BY THE AUTHOR

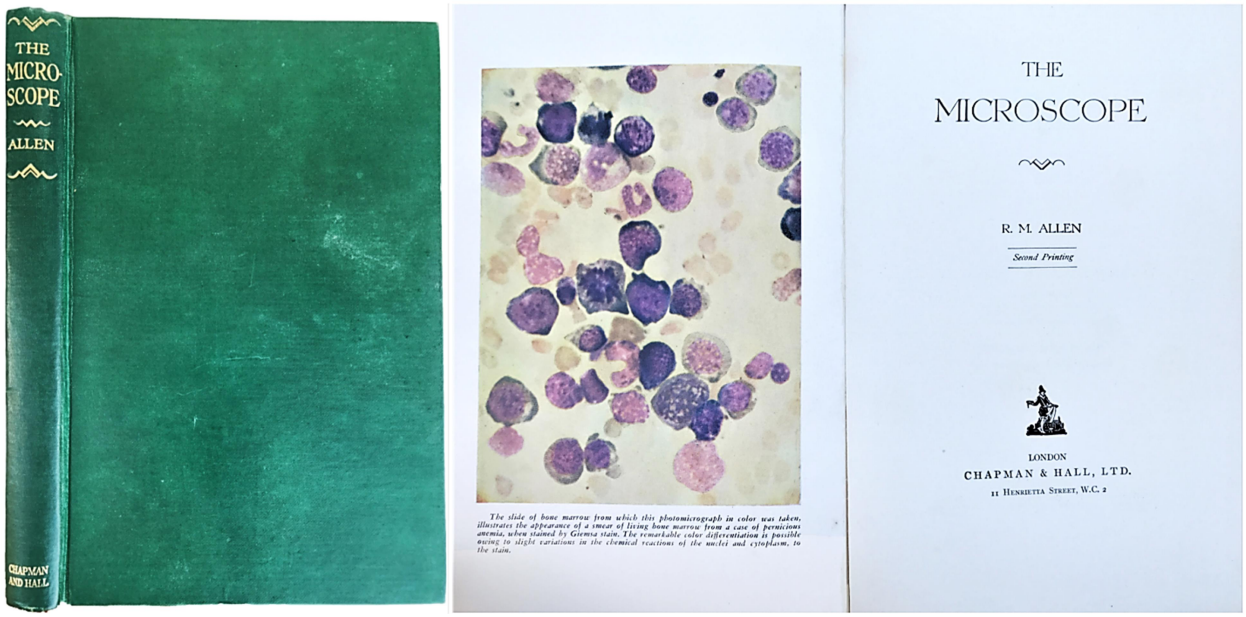
3. **ADAN, Henri Philippe**. *Le Microscope coup d'oeil discret sur le monde invisible*. Bruxelles: C. Muquardt, Henri Merzbach, 1873. ¶ 8vo. [ii], ii, 301, [1] pp. Half-title, fig. (microscope), 10 plates; some looseness to the text-block. Original pink printed wrappers; lower 2 inches of spine missing, with tear protruding to the rear wrapper; spine worn. Internally very good. INSCRIBED BY THE AUTHOR TO PROFESSEUR E. VAN DER REST. RARE.

$ 125

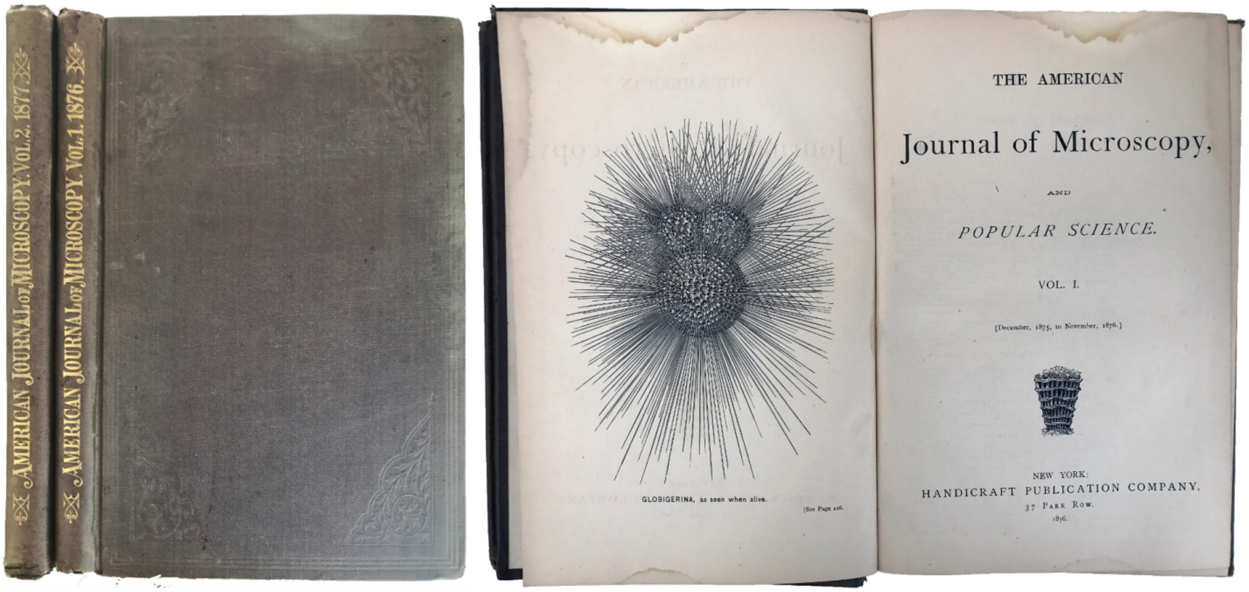
First edition of this popular work on microscopy. Contents: Choice of a microscope, insects, beetles, butterflies, the proboscis, the

domestic fly, bees (language of the bees as seen through the microscope), ocypus, antennae of butterflies, insect eyes, scorpions, Acaricides, mites (Gamasus coleoptratorum), etc. Gil Blas and Don Quixote are also brought into the text (7 times!). Adan also wrote, *Le Monde Invisible dévoile; Révélations du microscope* ... 1880.

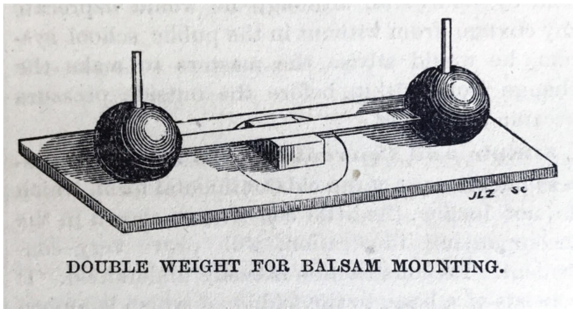
PROVENANCE: Eugène van der Rest (1848–1920), associated with the University of Bruxelles/ Université libre de Bruxelles, was a former Rector, was a professor of political economy. He was author of: *Platon et Aristote, essai sur les commencements de la science politique*, (1876), *La sociologie : discours prononcé à la séance de rentrée de l'université de Bruxelles le 15 octobre* 1888, and, *L'Enseignement des sciences sociales, discours prononcé* ... 1889. See: *Information Beyond Borders: International Cultural and Intellectual Exchange* ... edited by Professor W Boyd Rayward. (p.153).



4. **ALLEN, R. M. (Roy Morris)** (1882-). *The Microscope*. London: Chapman & Hall, (1944). ¶ Second printing. 8vo. viii, 286 pp. Color frontispiece, 17 plates, 82 figures, index. Green gilt-stamped cloth; rubbed. Very good. $ 12

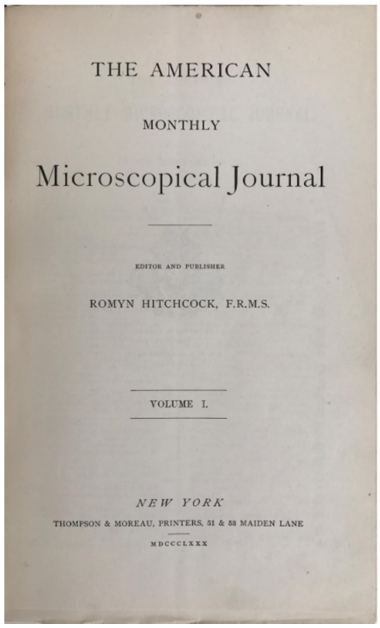


5. **[American Journal of Microscopy].** *The American Journal of Microscopy, and Popular Science*. Volumes 1-2. New York: Handicraft, 1876-77. ¶ 2 volumes. 8vo. [2], iii, 144, [58]; [2], ii, 172, [24], 1-4, 9-52, 65-88pp. Figures, illus., index, ads. Original mauve blind- and gilt-stamped cloth; dampstained covers, affecting some margins, but faint. Ownership signature of C. O. Currier; rubber stamp of Charles O. Currier, Pharmacist, Stoneham, Mass.


DOUBLE WEIGHT FOR BALSAM MOUNTING.

$ 75

Begins with vol. I, no. 1, December, 1875. This 2-volume set contains the first two volumes of this journal that continued well into the 20th century. The articles contained therein are numerous, penned from various contributors, about all kinds of microscopic applications, treatments by and about the instruments themselves, microscope books, diatoms, mineralogy, staining, tissue samples, mounting objects, optical issues, various specimens, there is even some notes relating to the “Kentucky shower of flesh.” Always of interest are the extensive advertisements preserved in both volumes.


THE AMERICAN

MONTHLY

Microscopical Journal

EDITOR AND PUBLISHER

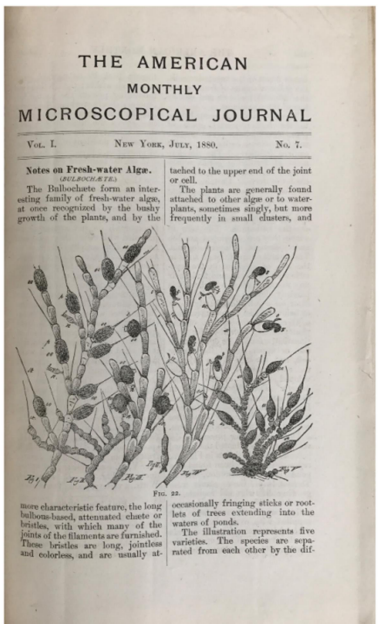
ROMYN HITCHCOCK, F.R.M.S.

VOLUME I.

NEW YORK

THOMPSON & MOREAU, PRINTERS, 31 & 33 MAIDEN LANE

MDCCCLXXX


THE AMERICAN

MONTHLY

MICROSCOPICAL JOURNAL

Vol. I. New York, July, 1880. No. 7.

Notes on Fresh-water Algæ.

BULBOCHÆTE.

The Bulbochaete form an interesting family of fresh-water algæ, at once recognized by the bushy growth of the plants, and by the more characteristic feature, the long bulbous-based, attenuated cluste or bristles, with which many of the joints of the filaments are furnished. These bristles are long, jointless and colorless, and are usually attached to the upper end of the joint or cell.

The plants are generally found attached to other algæ or to water-plants, sometimes singly, but more frequently in small clusters, and occasionally fringing sticks or root-lets of trees extending into the waters of ponds.

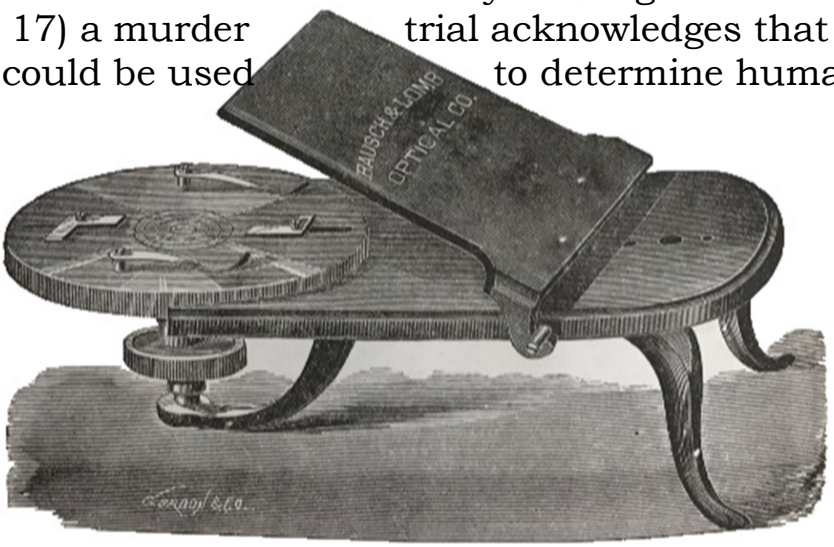
The illustration represents five varieties. The species are separated from each other by the dif-

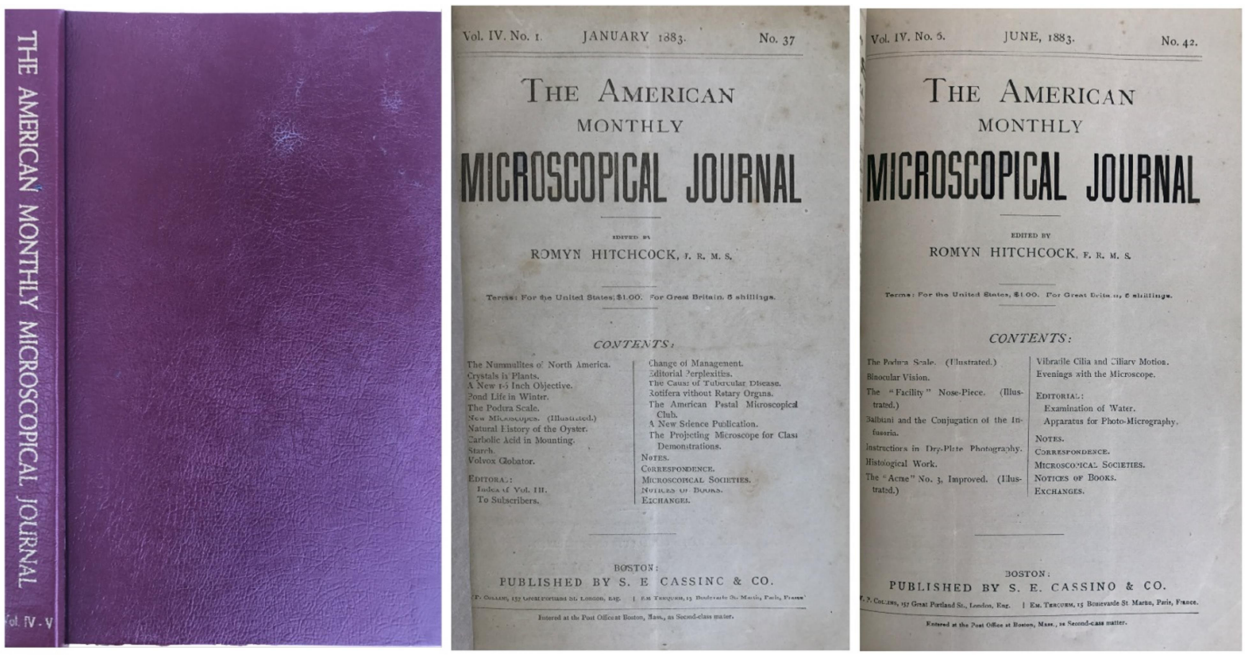
Fig. 22.

6. **[American Monthly Microscopical Journal].** *The American Monthly Microscopical Journal. Editor and publisher: Romyn Hitchcock.* New York: Thompson & Moreau, 1880-81. ¶ Large 8vo. [4], iv, 240; [4], iv, 240 pp. Numerous illustrations. Early quarter brown cloth, marbled boards; spine replaced with black kozo. Very good.

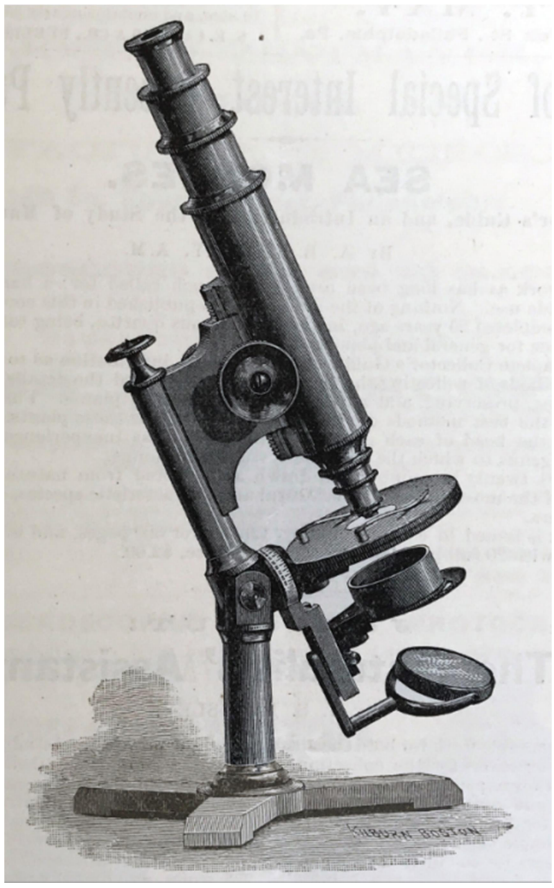
$ 45

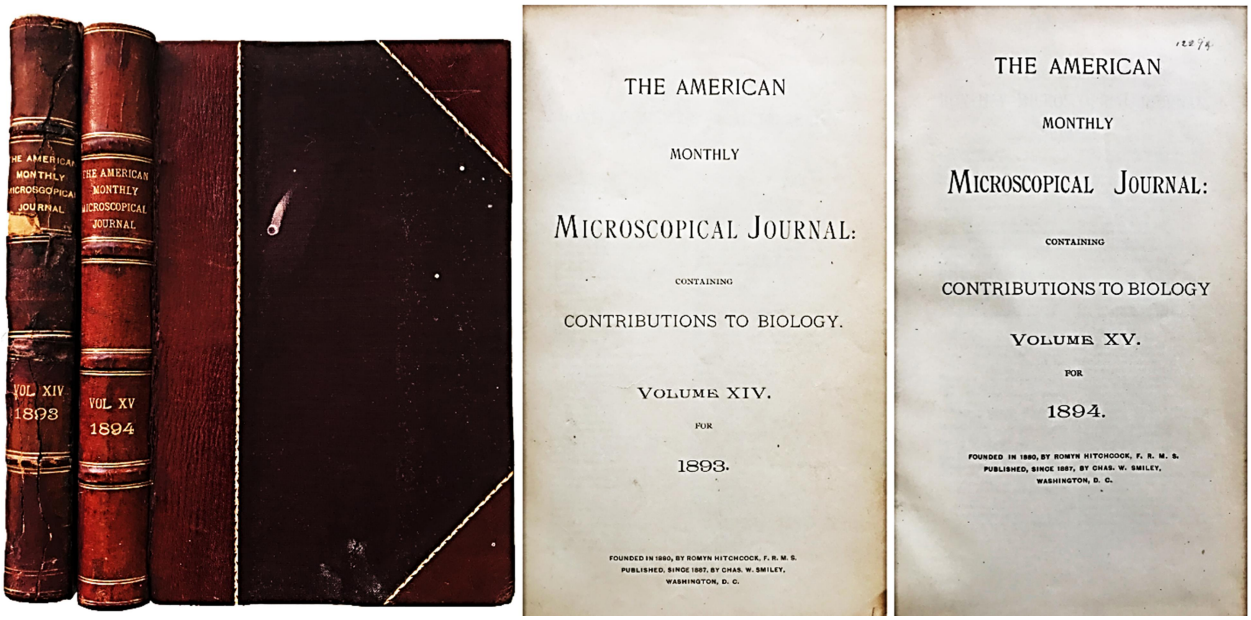
Vol. I, nos. 1-12; Vol. II nos. 1-12. The editor, Romyn Hitchcock (1851-1923), was a chemist and lecturer on the Orient. The contents of these two issues are strictly relating to microscopy. In one note (p. 17) a murder trial acknowledges that a microscope could be used to determine human blood (or not).





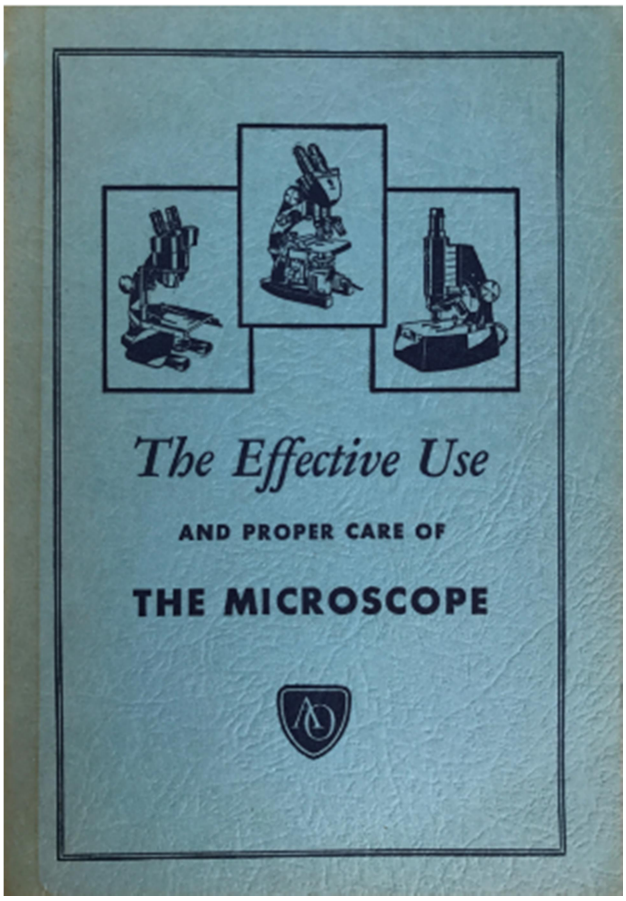
7. **[American Monthly Microscopical Journal].** *The American Monthly Microscopical Journal. Editor and publisher: Romyn Hitchcock*. [10 issues]. Boston: S. E. Cassino, 1883-84. ¶ Series: vol. IV, nos. 1-9; vol. V, no. 1, Jan., 1884, no. 49. 10 issues bound together in one volume. 8vo. 180, 20 pp. Illustrated, ads. Modern dark red gilt-stamped cloth. Fine. Full of wonderful microscopy articles of the time. $ 40



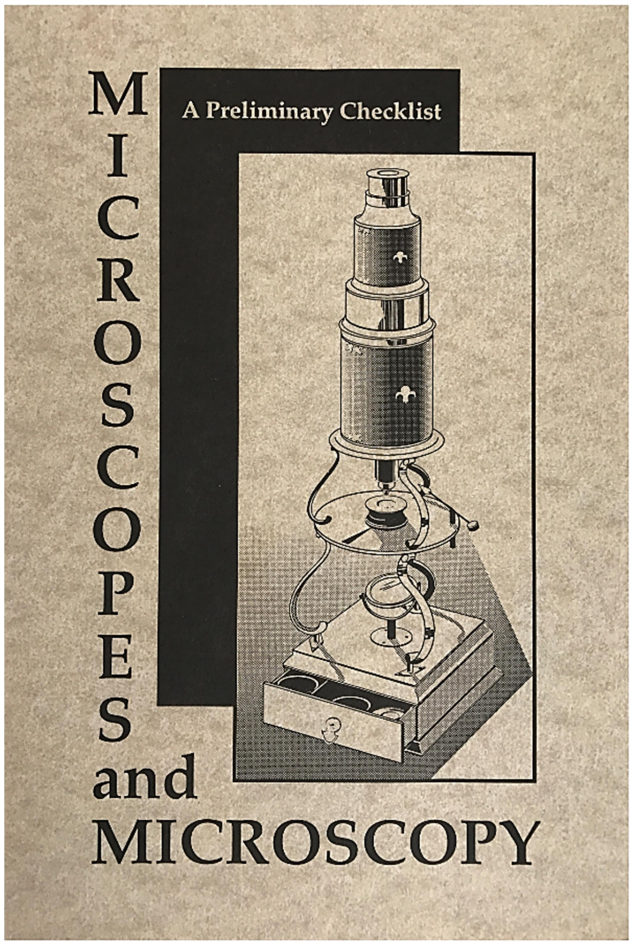


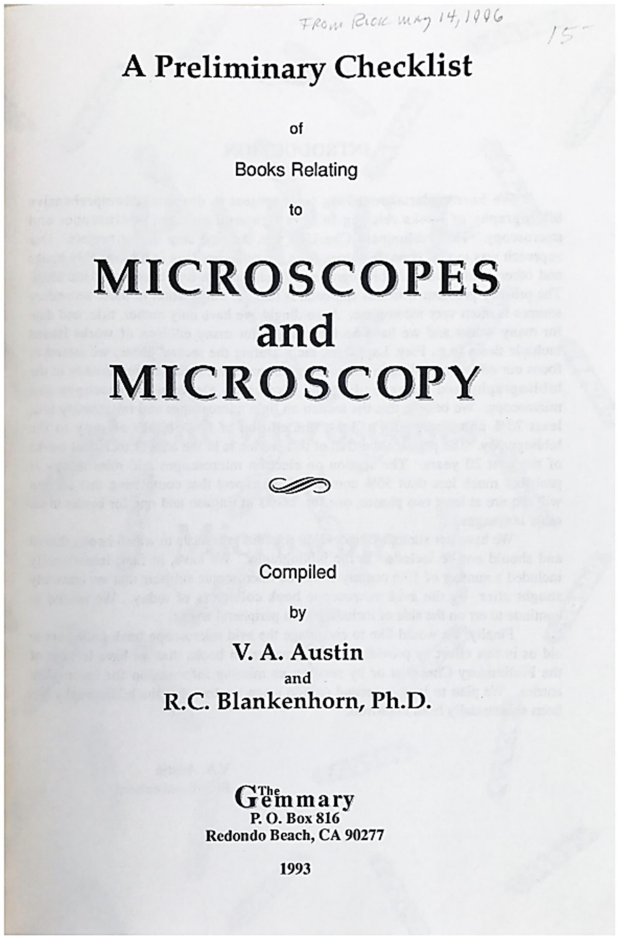
8. **[American Monthly Microscopical Journal].** *The American Monthly Microscopical Journal: containing contributions to biology.* Washington, D.C.: Chas. W. Smiley, 1893-4.

¶ 2 volumes. Series: vols. XIV and XV. 8vo. 358, [1]; 392 pp. Plates, figures, indexes. Early half maroon gilt-stamped calf, maroon cloth; spines well worn, corners showing. Ownership signature of C.W. Conlick, San Jose, Calif. Bookplate removed. Good. $ 50

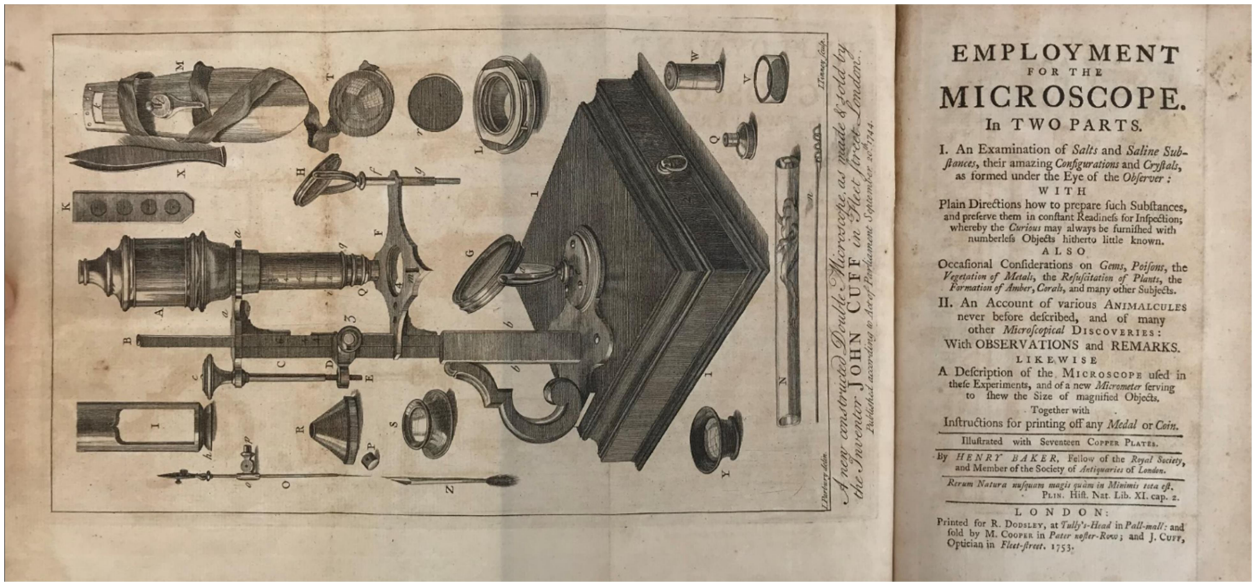


9. **American Optical Company; RICHARDS, Oscar W**. *The Effective Use and Proper Care of the Microscope*. Buffalo: American Optical Company, 1949. ¶ 19 cm. 63 pp. 45 illustrations. Pale blue printed wrappers; slight discoloration to spine. Near fine. $ 20



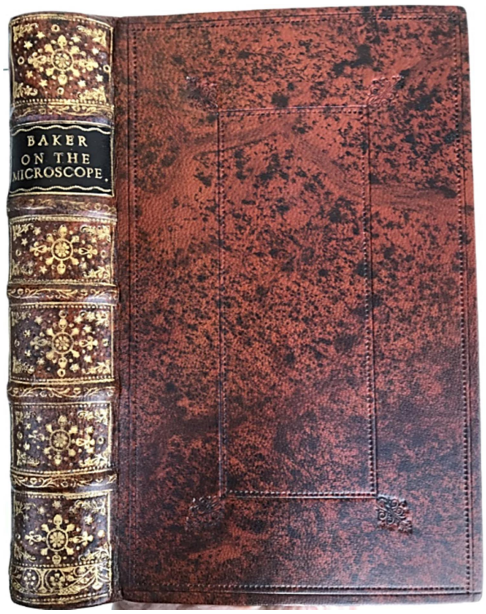


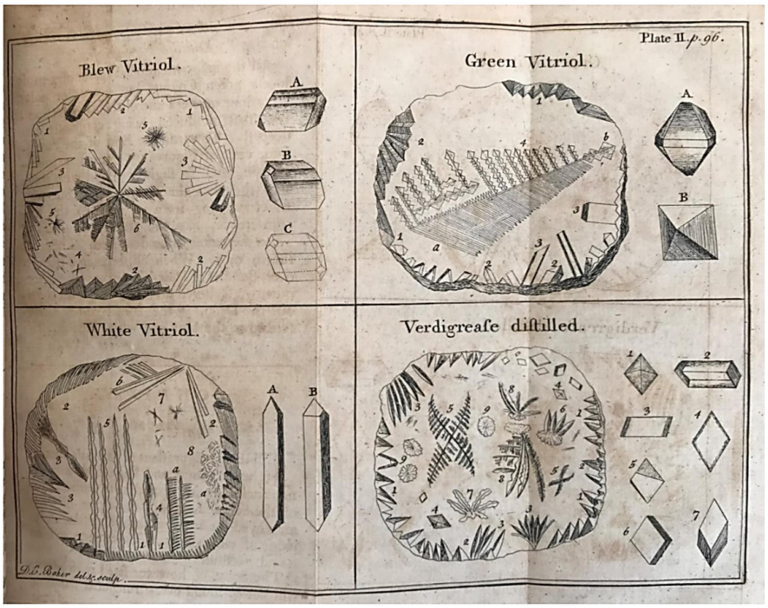
10. **AUSTIN, V. A.; R. C. BLANKENHORN**. *A Preliminary Checklist of Books Relating to Microscopes and Microscopy*. Compiled … Redondo Beach: Gemmary, 1993. ¶ Large 8vo. [ii], 133 pp. Printed wrappers. Fine. $ 18



11. **BAKER, Henry** (1698-1774). *Employment of the Microscope. In two parts. I. An examination of salts and saline substances, their amazing configurations and crystals, as formed under the eye of the observer: with plain directions how to prepare such substances, and preserve them in constant readiness for inspection; whereby the curious may always be furnished with numberless objects hitherto little known. Also occasional considerations on gems, poisons, the vegetation of metals, the resuscitation of plants, the formation of amber, corals, and many other subjects. II. An account of various animalcules never before described, and of many other microscopical discoveries: with observations and remarks. Likewise a description of the microscope used in these experiments, and of a new micrometer serving to shew the size of magnified objects. Together with instructions for printing off any medal or coin. Illustrated with seventeen copper plates. By Henry Baker, fellow of the Royal Society, and member of the Society of Antiquaries of London.* London: Printed for R. Dodsley, 1753.

¶ Two parts in one vol. 8vo. xiv, 442, [10] pp. 17 engraved plates (some folding): plates (facing): Frontispiece [XVI], pages [Plate 1] 74, [II] 96, [III] 112, [IV] 128, [V] 154, [VI] 166, [VII] 172, [VIII] 180, [IX] 190, [X] 266, [XI] 288, [XII] 324, [XIII] 350, [XIV] 378, [XV] 402, [422=frontis. “not numbered”], [XVII] 440; lightly foxed.





Period-style full speckled blind- and gilt-stamped calf, spine with massed gold tooled pattern, black gilt-stamped leather label [by the Byzantium Bindery]. Provenance: Thomas James rubberstamp (dedication page). A BEAUTIFUL COPY.

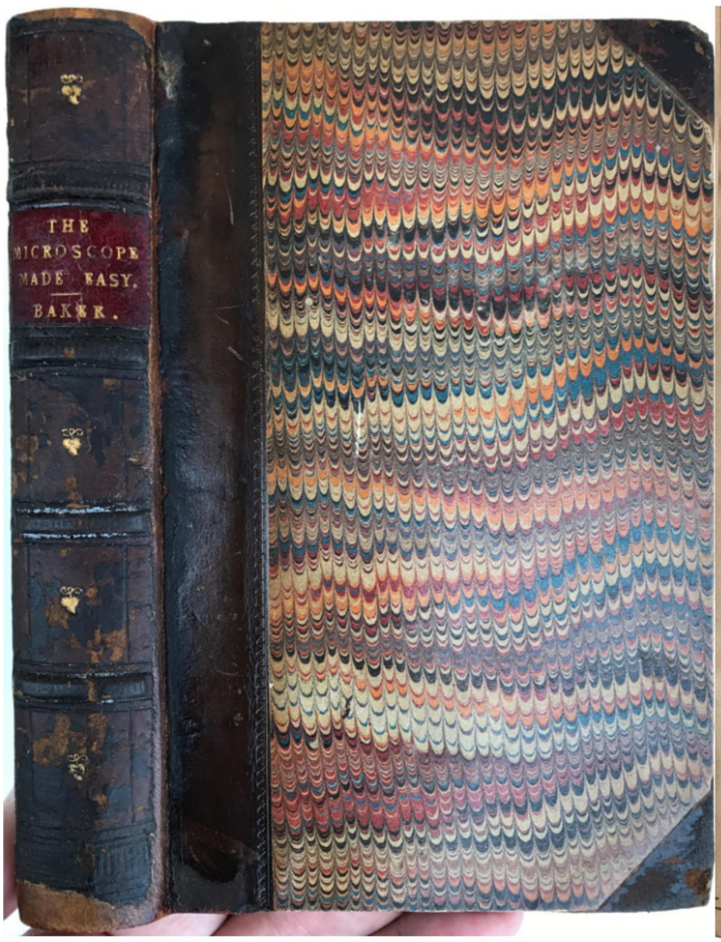
$ 1,100

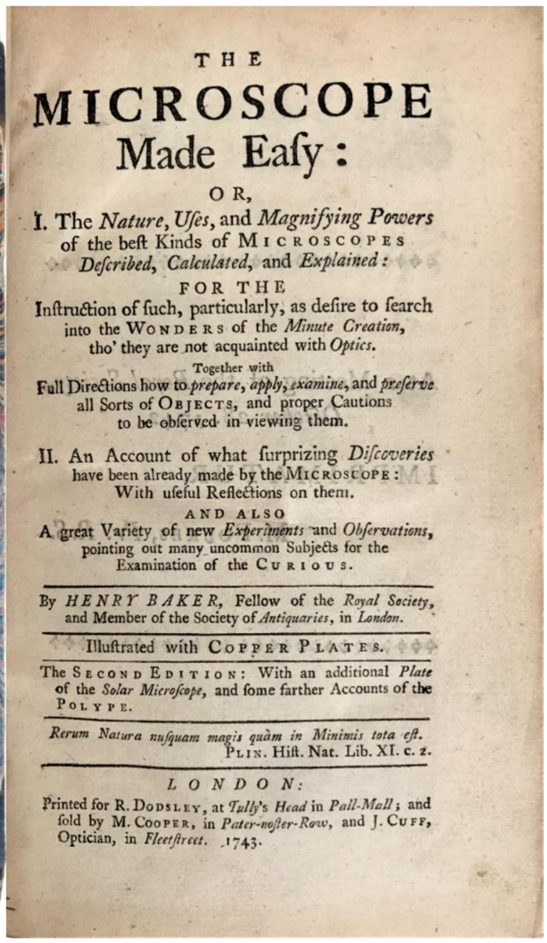
First edition. Features descriptions of various insects, crystals, chemicals, etc., as well as a description of the microscope and of Leeuwenhoek's microscopes. Baker, apprenticed to a bookseller, natural philosopher, microscopist, opened a school for deaf and dumb persons, received the Copley gold medal for microscopical observations on the crystallization of saline particles in 1744.[1] He also studied the application of electricity. He married the daughter of Defoe, was a Fellow of the Royal Society and the Society of Antiquaries, and founded the Bakerian Lectures, for the Royal Society.

Provenance: Thomas James. (unknown).

☼ Blake 28; *DSB* I, 412; Nissen ZBI 201; Poggendorff I, 91 [1764 ed.]; Waller 10730; Wellcome II, 88.

[1] Some of this work deals with crystals. See: John G. Burke, *Origins of the Science of Crystals*, 1966.





THE

MICROSCOPE

Made Eaſy:

OR,

I. The *Nature, Uſes*, and *Magnifying Powers* of the beſt Kinds of MICROSCOPES *Deſcribed, Calculated*, and *Explained:*

FOR THE

Inſtruction of ſuch, particularly, as deſire to ſearch into the WONDERS of the *Minute Creation*, tho' they are not acquainted with *Optics*.

Together with

Full Directions how to *prepare, apply, examine*, and *preſerve* all Sorts of OBJECTS, and proper Cautions to be obſerved in viewing them.

II. An Account of what ſurprizing *Diſcoveries* have been already made by the MICROSCOPE: With uſeful Reflections on them.

AND ALSO

A great Variety of new *Experiments* and *Obſervations*, pointing out many uncommon Subjects for the Examination of the CURIOUS.

By *HENRY BAKER*, Fellow of the *Royal Society*, and Member of the Society of *Antiquaries*, in *London*.

Illuſtrated with COPPER PLATES.

The SECOND EDITION: With an additional *Plate* of the *Solar Microſcope*, and ſome farther Accounts of the POLYPE.

Rerum Natura nuſquam magis quàm in Minimis tota eſt.
PLIN. Hiſt. Nat. Lib. XI. c. 2.

LONDON:

Printed for R. DODSLEY, at *Tully's Head* in *Pall-Mall*; and ſold by M. COOPER, in *Pater-noſter-Row*, and J. CUFF, Optician, in *Fleetſtreet*. 1743.

12. **BAKER, Henry** (1698-1774). *The Microscope Made Easy: or, I. The Nature, Uses, and Magnifying Powers of the best Kinds of Microscopes Described, Calculated, and Explained … The second edition: with an additional Plate of the Solar Microscope, and some farther Accounts of the Polype*. London: Printed for R. Dodsley, 1743. ¶ 2 parts in 1 volume. 8vo. [ii], xvi, 311, [xiii] pp. 15 copper-engraved plates (11 folding): [plates [I] facing p. 9; [II] 14; [III] 16; [IV] 22; [unnumbered] inserted at unpaginated leaf; [V] 40; [VI] 61; [VII] 72; [VIII] 90; [IX] 92; [X] 104; [XI] 121; [XII] 154; [XIII] 167; [XIV] 260, folding table (facing p.36), index; occasional pencil marginalia, foxing. [Complete]. Early half calf, blind and gilt-stamped spine, red leather spine label, marbled boards; neatly rebacked in calf preserving original mounted spine. Bookplate and signature of

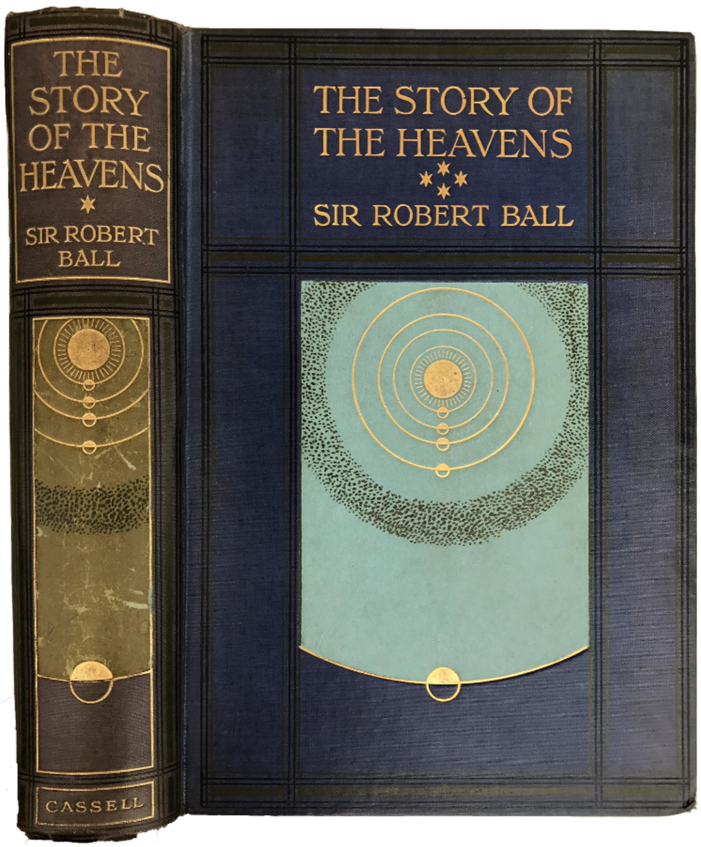
Charles Atwood Kofoid (1920); early label of Carpenter & Westley Opticians, London. Very good.

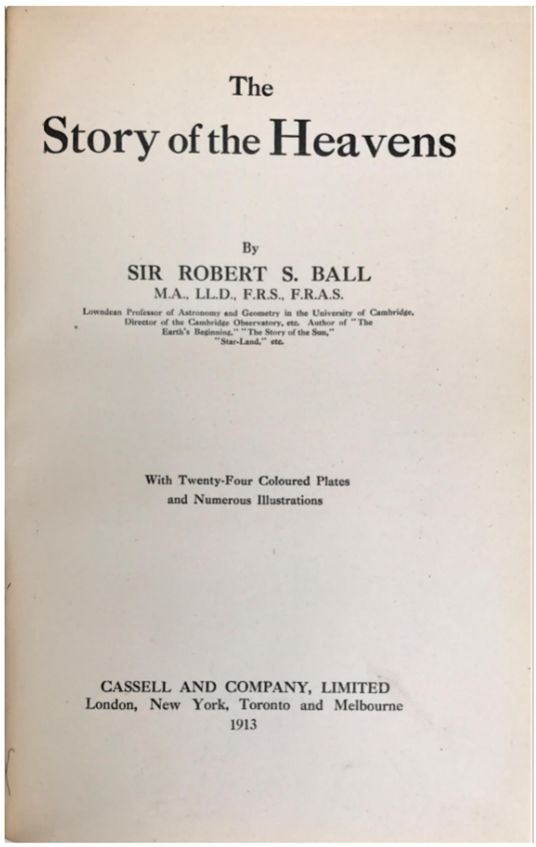
$ 750

Second edition, with additions (see title – with the additional plate of the solar microscope) of this extremely popular work which went into a number of editions. The first edition was issued in 1742, and was full of material that the author "compiled, abstracted and copied everything available about the instrument, even Leeuwenhoek's plates found in the archives of the Society" [Ratcliff, p.80], this edition includes the discovery of the polyp. Even so, no one had studied Leeuwenhoek's instruments that were considered so valuable for his own pioneering and systematic research, until Baker took the task up some 20 years later – those instruments having been donated in 1723 on Leeuwenhoek's death. Arranged in two parts, the first dealing with various types of microscopes, their employment and adjustment, including the instruments of Wilson, Leeuwenhoek, Culpepper, Scarlett, Cuff, and Lieberkühn. The second part is devoted to the examination of natural specimens established by and similar to Hooke's *Micrographia*. This work and the author's *Employment of the Microscope*, contain the bulk of his more important communications on the subject to the Royal Society.

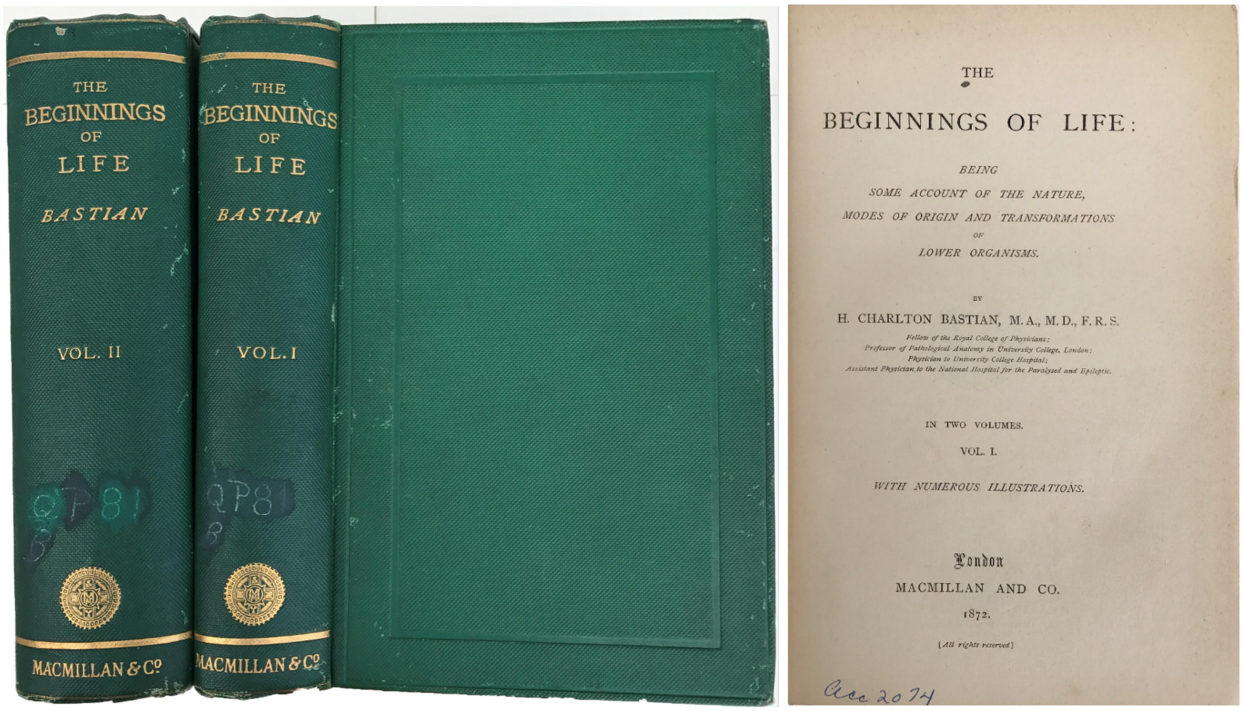
Ratcliff offers more insight to the relationship Baker had with the various persons involved with instrument making, including Cuff and Lieberkühn. Some description of the distribution and translations of the edition are also mentioned. Ratcliffe also writes, "With, *The Microscope Made Easy*, Baker achieved an important place as microscopical observer in the Society…" (p.180). See: Dr. Marc J Ratcliff, *The Quest for the Invisible: Microscopy in the Enlightenment,* (2013), page 268.

☼ *DNB*, II, pp. 929-30; Clay & Court, History of the Microscope, pp. 139-40; Cole, 1457; *DSB*, I, pp. 410-12; Gascoigne 10868.1; Nissen 202; Poggendorf, I, col. 91.





13. **BALL, Sir Robert** (1840-1913). *The Story of the Heavens*. London, New York...: Cassell, 1913. ¶ 8vo. xii, 568 pp. 24 colored plates, numerous illustrations, index. Original blue black- yellowish- and gilt-stamped cloth with turquoise mounted piece showing a solar system on the upper cover, top edge gilt; joints mended. Ownership signature of Esper W. Fitz... 1914. $ 15



14. **BASTIAN, Henry Charlton** (1837-1915). *The beginnings of life: being some account of the nature, modes of origin and transformations of lower organisms*. London: Macmillan, 1872. ¶ Two volumes. 194 x 133 mm. 8vo. xxxv, 475; ix, clv, 640 pp. 38 figs.; 5, 89 figs., tables (1 folding). Blind-stamped green cloth, gilt spine, rubbed. Ownership rubber stamp. Ex library ms. spine number. Unopened. Very good.

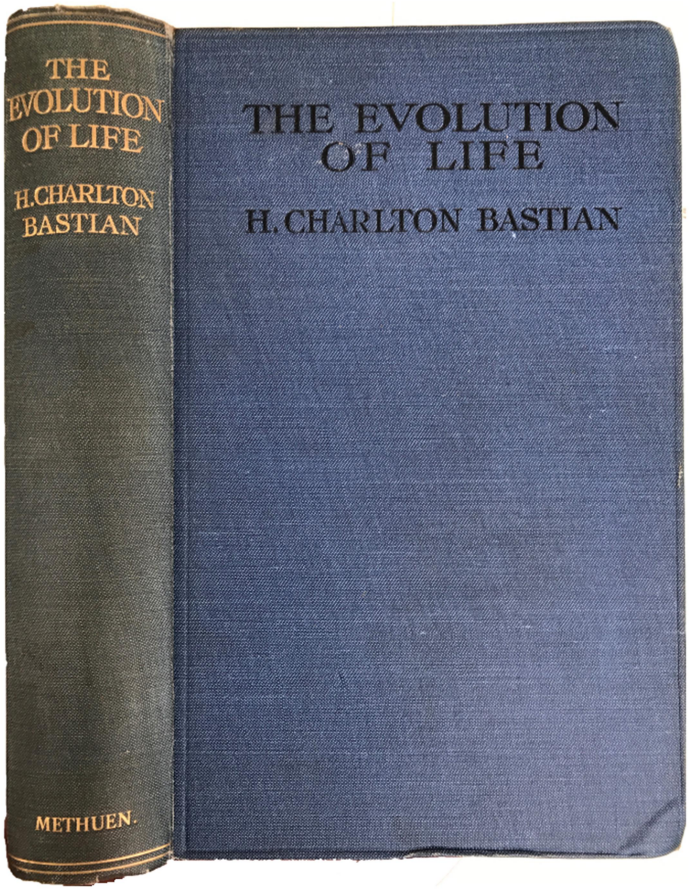
$ 100

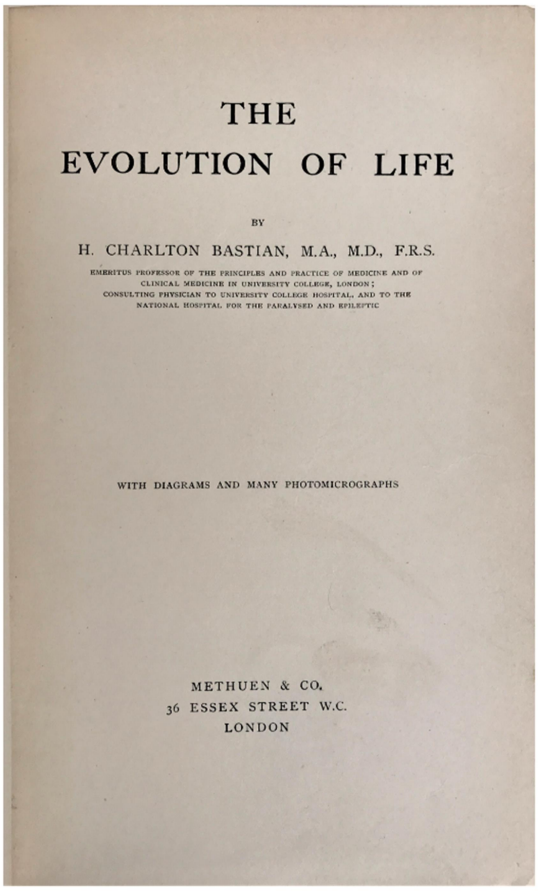
FIRST EDITION. “Bastian denied that boiling destroyed all bacteria, as Pasteur claimed, and thereby opened the way for the discovery of heat-resistant spores. On the whole, his criticisms of Pasteur’s logic were more effective than the multitude of experiments he cunningly conceived and carried out, for the techniques he used are now known to have been frequently defective. His views and supporting experimental data were set forth in a large book of over 1,100 pages, *The beginnings of life* (1872).” *DSB*, I, pp. 496-497.

Henry Charlton Bastian was professor of pathology and physician to University College Hospital. Bastian was a distinguished neurologist

but is principally known as the great champion of the doctrine of abiogenesis and an opponent of Pasteur. He died poor.

 BM (Nat. Hist.), I, p. 108; Bulloch, *The history of bacteriology*, pp. 108-109; Gascoigne 15211.2; Hirsch, I, p. 324; Lechevalier & Solotorovsky, *Three centuries of microbiology*, p. 36.





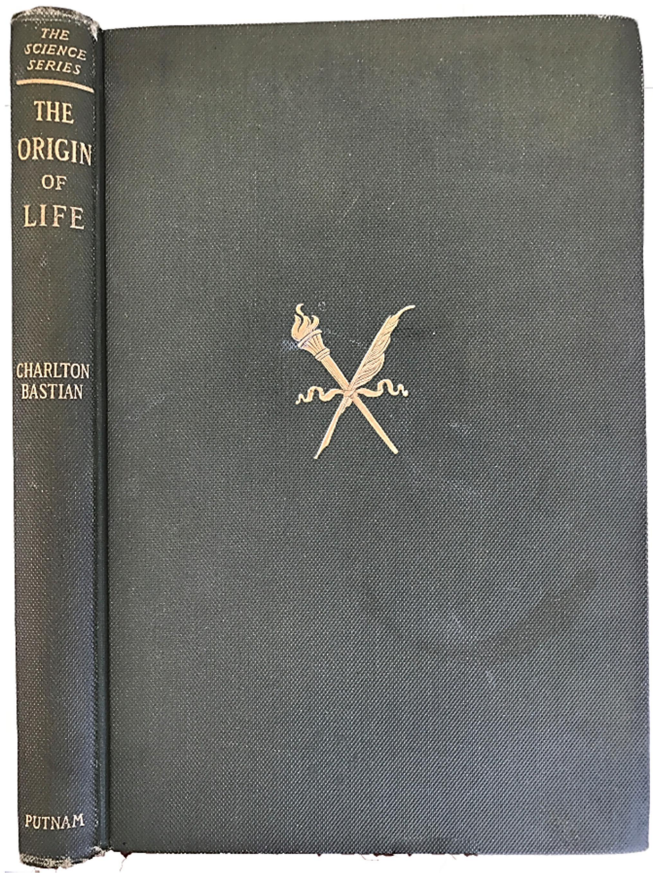
15. **BASTIAN, Henry Charlton** (1837-1915). *The evolution of life*. London: Methuen, (1907). ¶ 8vo. xviii, 319, [1], [ads] 47 pp. 38 figs. on 12 plates, 12 figs., index. Blind- and black-stamped blue cloth, gilt spine; rubbed, corners bumped. Ownership rubber stamp of Leslie E. Orgel. Very good.

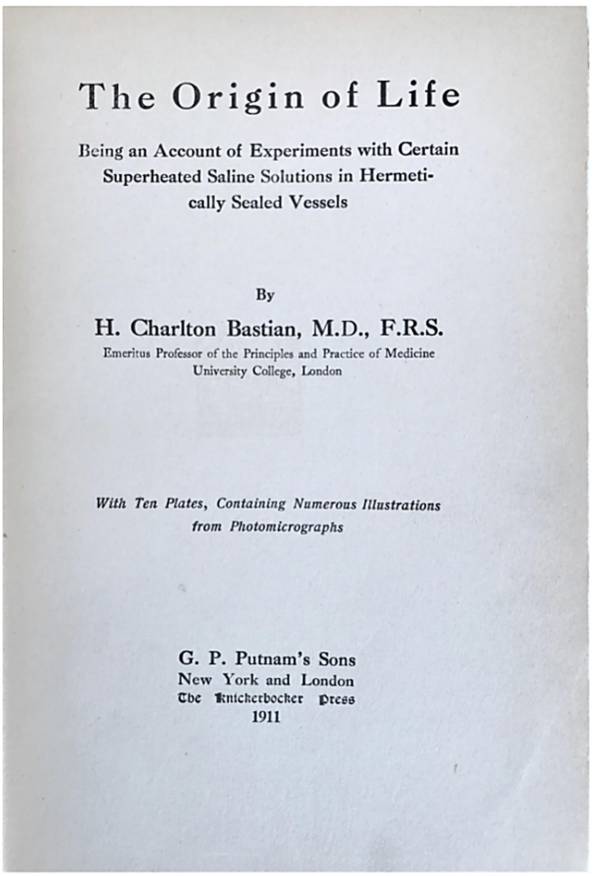
$ 80

FIRST EDITION. *The evolution of life* (1907) dealt exclusively with archebiosis. “Bastain thought that abiogenesis included “archebiosis,” living things arising from inorganic matter, or from

dead animal or plant tissues, through new molecular combinations." *DSB*, I, p. 497.

CONTENTS: Introduction -- The evolution of life. Part I. The modern aspect of the question -- Chapter I. The earth as one among a multitude of inhabited worlds -- Chapter II. The constitution of matter -- Chapter III. Inorganic evolution -- Chapter IV. Organic evolution as a natural sequence of inorganic evolution -- Chapter V. Some modern views and present-day misconceptions -- Part II. The conditions of the problem and the modes of experimentation -- Chapter VI. Experimental conditions as opposed to natural conditions: their unfavourable nature -- Chapter VII. The presence of germs in air and water -- Chapter VIII. The limits of vital resistance to heat: early observations -- Chapter IX. The limits of vital resistance to heat: later observations -- Chapter X. The limits of vital resistance to heat: conclusion -- Chapter XI. Modes of testing the question whether certain solutions can give birth to specks of living matter -- Part III. The experimental evidence in reference to Pasteur's conclusions -- Chapter XII. Was Pasteur right in saving that guarded acid fluids previously heated to 100°C (212° F) remain barren? -- Chapter XIII. Was Pasteur right in his explanation of the fact that guarded neutral or slightly alkaline infusions previously heated to 100°C. Will often ferment? -- Chapter XIV. New experiments in reference to the fertility of neutral organic solutions heated to 100°C -- Chapter XV. Discussion with M. Pasteur in reference to the experiments recorded in the last chapter, followed by the appointment of a commission by the Academy of Science of Paris -- Chapter XVI. Final experiments on the cause of the fertility of boiled neutral or slightly alkaline organic solutions -- Chapter XVII. Was Pasteur right in saying that neutral, or slightly alkaline, guarded organic fluids previously exposed to 110°C (230° F) always remain barren? -- Part IV. Complicated methods and conflicting results -- Chapter XVIII. Professor Tyndall's experimental evidence with heated organic fluids -- Part V. New experiments with superheated saline solutions -- Chapter XIX. Objects and methods in the new experiments: initial trials -- Chapter XX. Final decisive experiments -- Part VI. The relation of my work and views to modern bacteriology -- Chapter XXI. The relation of my work and views to modern bacteriology.





The Origin of Life

Being an Account of Experiments with Certain Superheated Saline Solutions in Hermetically Sealed Vessels

By

H. Charlton Bastian, M.D., F.R.S.

Emeritus Professor of the Principles and Practice of Medicine University College, London

With Ten Plates, Containing Numerous Illustrations from Photomicrographs

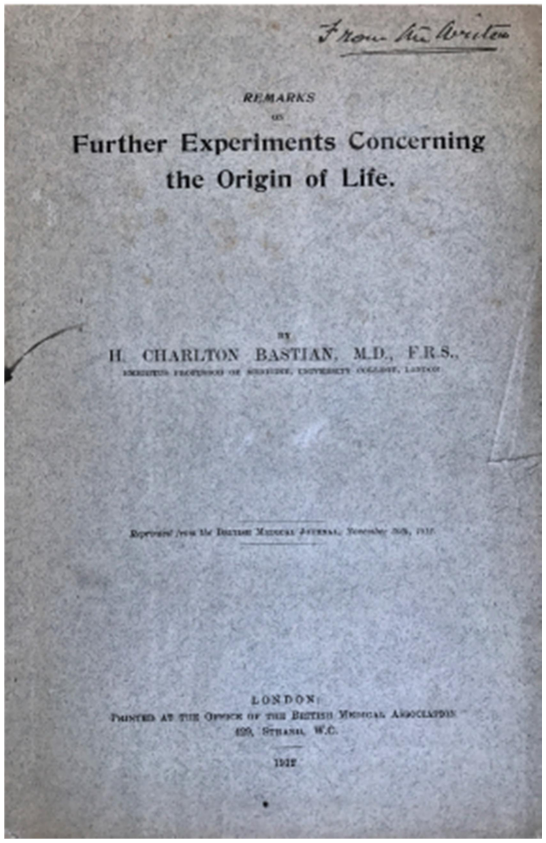
G. P. Putnam's Sons
New York and London
The Knickerbocker Press
1911

16. **BASTIAN, Henry Charlton** (1837-1915). *The Origin of Life; being an account of experiments with certain superheated saline solutions in hermetically sealed vessels*. New York & London: G. P. Putnam's Sons, 1911. ¶ 8vo. iv, [2], 119, [6] pp. 10 plates (with 61 figures), publisher's ads. Original full gilt-stamped green cloth. Ownership signature of "Mrs.[?] M. Harding ... San Diego". Very good.

$ 14

First edition. "Henry Charlton Bastian's support for spontaneous generation is shown to have developed from his commitment to the new evolutionary science of Darwin, Spencer, Huxley and Tyndall. Tracing Bastian's early career development shows that he was one of the most talented rising young stars among the Darwinians in the 1860s. His argument for a logically necessary link between

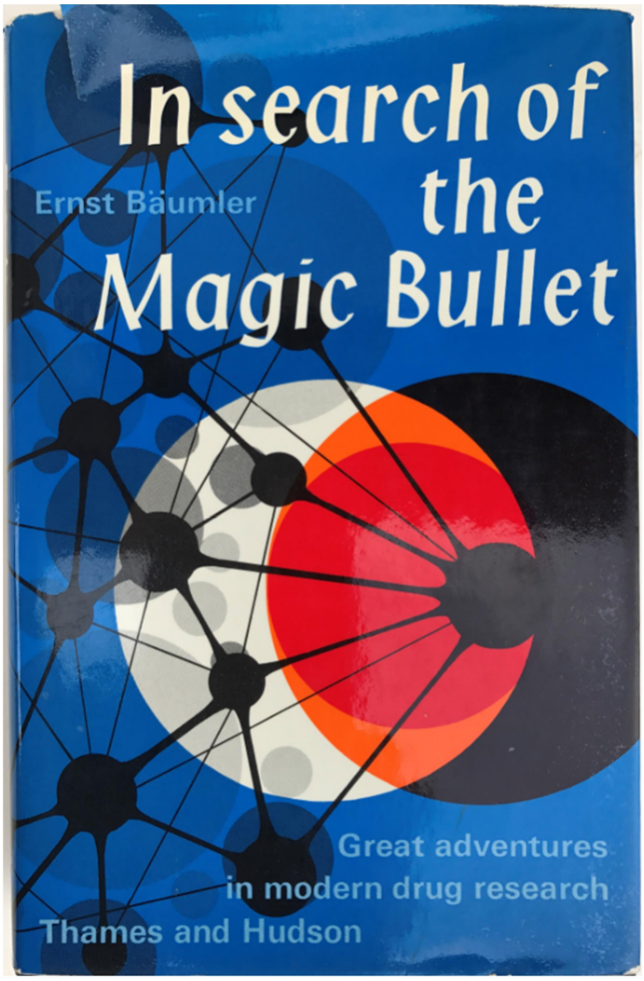
evolution and spontaneous generation was widely believed among those sympathetic to Darwin's ideas. Spontaneous generation implied materialism to many, however, and it had associations in Britain with radical politics and amateur science. Huxley and the X Club were trying to create a public posture of Darwinism that kept it at arm's length from those negative associations. Thus, the conflict that developed when Huxley and the X Club opposed Bastian was at least as much about factional in-fighting among the Darwinians as it was about the experiments under dispute. Huxley's strategy to defeat Bastian and define his position as “non-Darwinian” contributed significantly to the shaping of Huxley's famous address “Biogenesis and Abiogenesis.” Rhetorically separating Darwinism from Bastian was thus responsible for Huxley's first clear public statement that a naturalistic origin of life was compatible with Darwin's ideas, but only in the earth's distant past. The final separation of the discourse on the meaning of Brownian movement and “active molecules” from any possible link with spontaneous generation also grew out of Huxley's strategy to defeat Bastian. Clashes between Bastian and the X Club are described at the BAAS, the Royal Society, and in the pages of Nature and other journals.” – [abstract] James Strick, “Darwinism and the Origin of Life: The Role of H.C. Bastian in the British Spontaneous Generation Debates, 1868—1873,” *Journal of the History of Biology,* March 1999, Volume 32, Issue 1, pp 51–92.

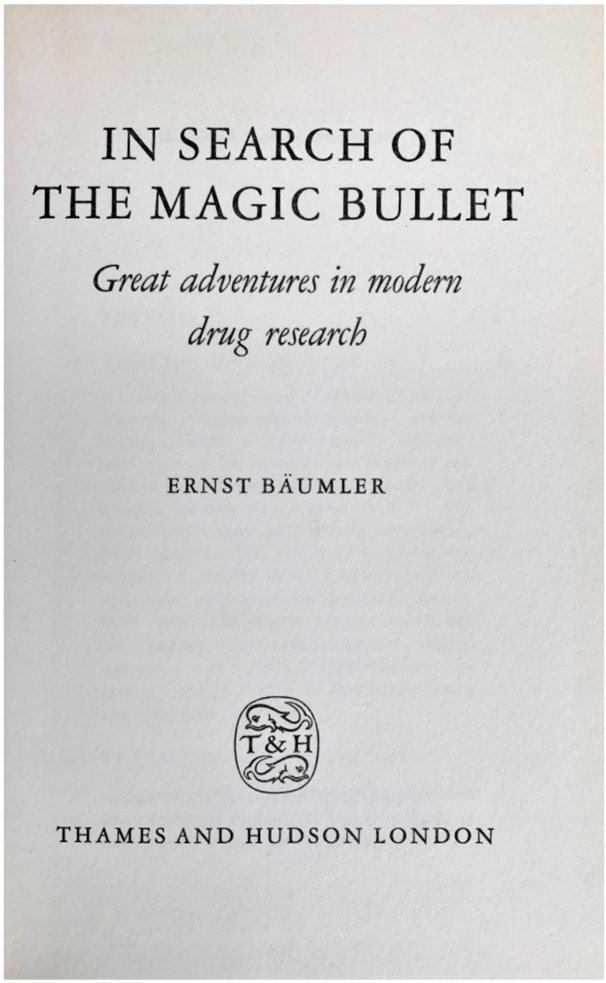


17. **BASTIAN, Henry Charlton** (1837-1915). "Remarks on Further Experiments Concerning the origin of life." Offprint from: *British Medical Journal*, November 30th, 1912. London: British Medical Association, 1912. ¶ 8vo. 16 pp. 6 figs. Original printed wrappers; fore-edge torn. INSCRIBED: "From the writer," on top cover. Good.

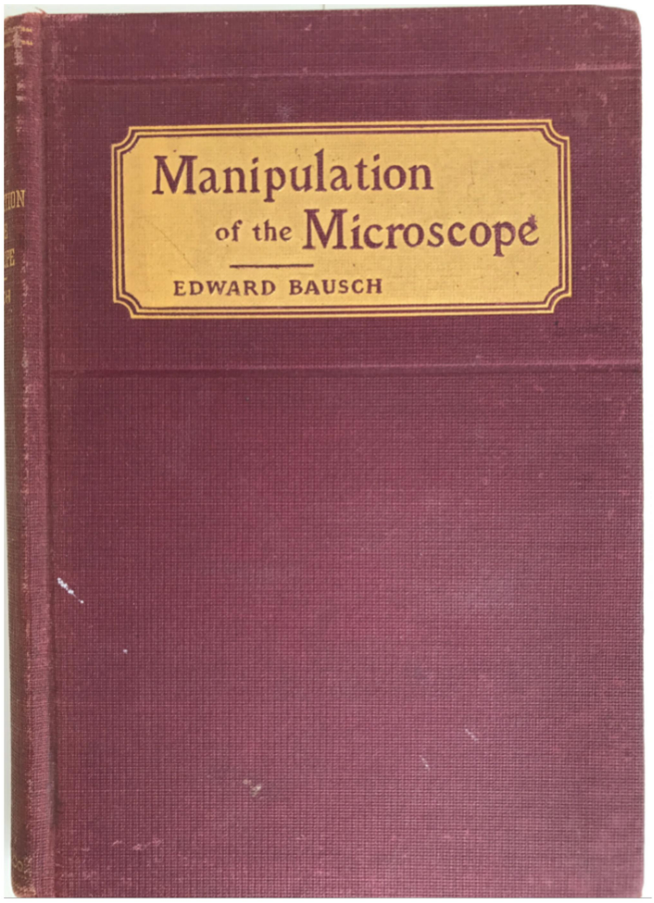
$ 35

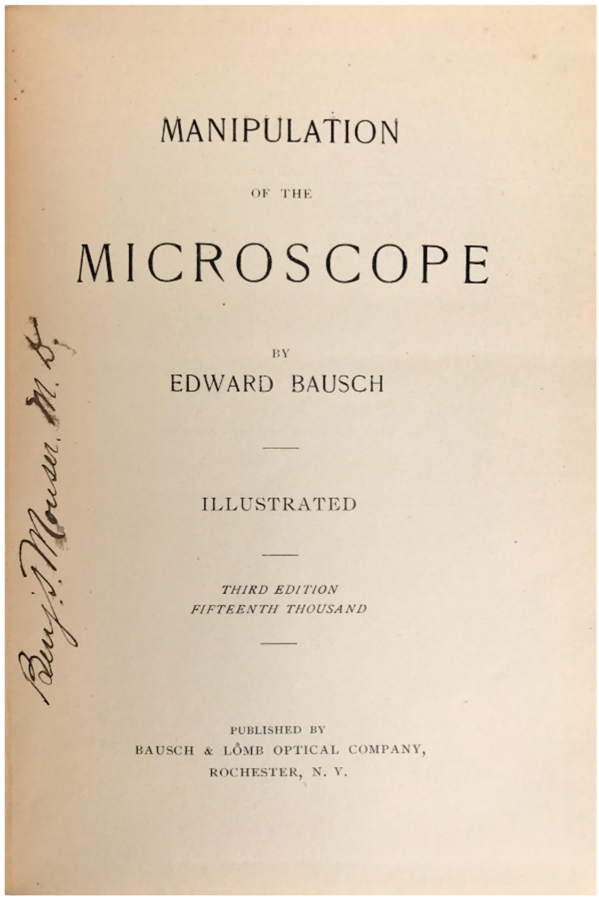
FIRST SEPARATE EDITION. This paper is a follow-up to Bastian's 1911 work, "The origin of life," and reports an additional 280 experiments in which the author brought forth living organisms in hermetically sealed tubes whose contents had been exposed to high temperatures. Bastian … "carried out a number studies on abiogenesis…. As Pasteur's main opponent, he was responsible for the development of some of the techniques that advanced bacteriology. Thus Bastian denied that boiling destroyed all bacteria …, and thereby opened the way for the discovery of heat-resistant spores." *DSB*.





18. **BÄUMLER, Ernst** (1926-). In Search of the Magic Bullet. Great adventures in modern drug research. London: Thames and Hudson, (1965). ¶ 8vo. 192 pp. 10 color plates (photos). Blue gilt-stamped cloth, dust-jacket; jacket a bit worn, but a very good copy. This work gives the stories of Paul Ehrlich, Alexander Fleming, and carries the research of pharmaceutical drugs and their applications up through the early 1960s. $ 5




MANIPULATION

OF THE

MICROSCOPE

BY

EDWARD BAUSCH

ILLUSTRATED

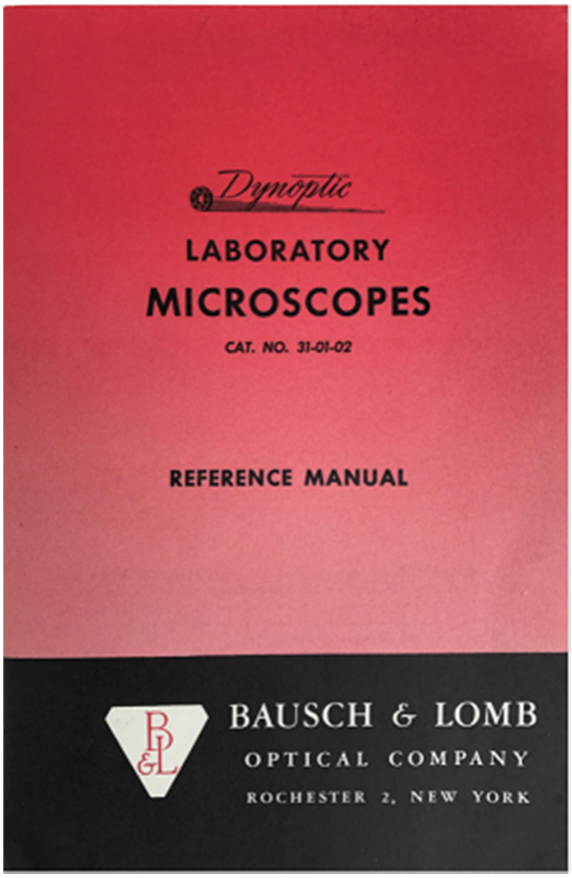
THIRD EDITION
FIFTEENTH THOUSAND

PUBLISHED BY
BAUSCH & LOMB OPTICAL COMPANY,
ROCHESTER, N. Y.

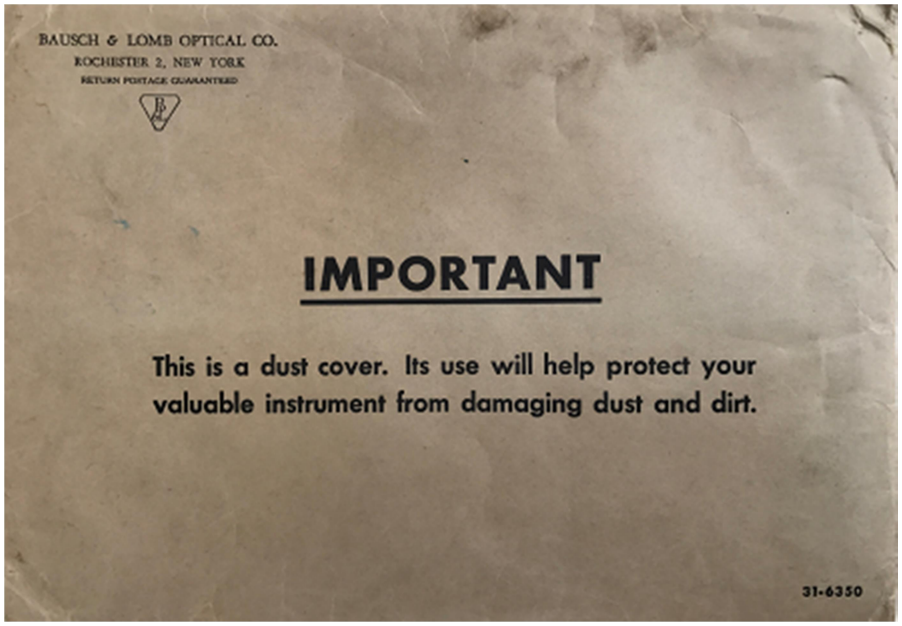
Benj. S. Mouser, M. D.

19. **BAUSCH, Edward**. *Manipulation of the Microscope. Illustrated. Third edition, fifteenth thousand*. Rochester: Bausch & Lomb, 1897.

¶ Printed by Andrew K. Wegman, Rochester. 12mo. 200 pp. Illus., index. Maroon gilt and blind-stamped cloth. Ownership signature on title of Benj. S. Mouser, M.D.[] $ 35



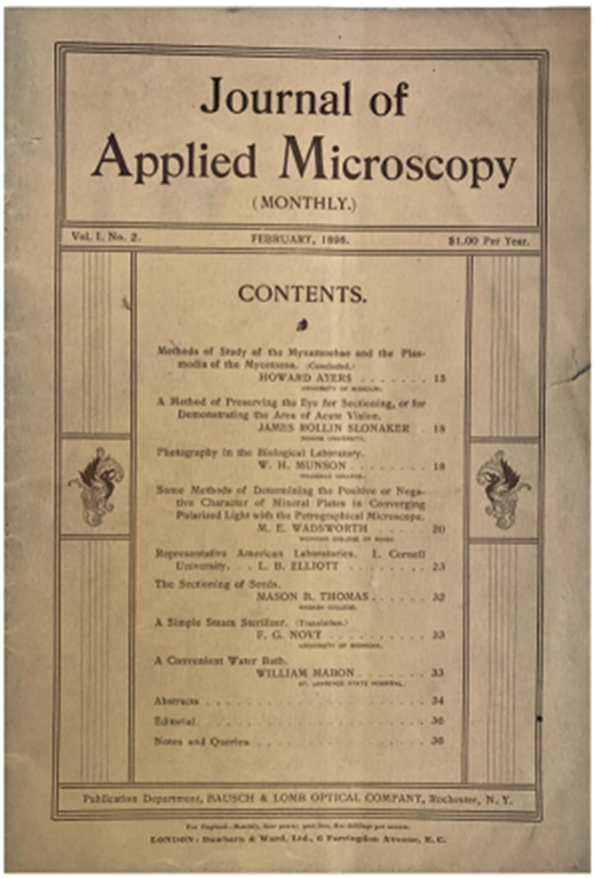
20. **BAUSCH & LOMB OPTICAL CO., Rochester, NY**. *Dynoptic Laboratory Microscopes. Cat. no. 31-01-02. Reference Manual.* Rochester, NY: Bausch & Lomb Optical Co., [1960s]. ¶ 22 cm. 32 pp. Illustrated. Red & black printed wrappers. Ownership signature of Frederick Herzig. Fine. $ 45



21. **BAUSCH & LOMB OPTICAL CO., Rochester, NY**. [Printed envelope]. Rochester, NY: Bausch & Lomb Optical Co., [n.d.]. ¶ 17 x 25 cm. Brown printed envelope. Ownership signature of Frederick Herzig, Los Angeles.

$ 10

Contains: “Cabinet Key Inside” Bausch & Lomb Optical Co., Rochester, NY; Certificate of Inspection from Bausch & Lomb Optical Co.; Bausch & Lomb Instrument Registration [for Herzig]. Added receipt from Braun Corp., Los Angeles, from whom Herzig bought a microscope [no date].


Journal of
Applied Microscopy
(MONTHLY.)
Vol. I. No. 2. FEBRUARY, 1898. $1.00 Per Year.
CONTENTS.
Methods of Study of the Myxamoebae and the Plasmodia of the Mycetozoa. (Concluded.)
HOWARD AYERS 15
A Method of Preserving the Eye for Sectioning, or for Demonstrating the Area of Acute Vision.
JAMES ROLLIN SLONAKER . 18
Photography in the Biological Laboratory.
W. H. MUNSON 18
Some Methods of Determining the Positive or Negative Character of Mineral Plates in Converging Polarized Light with the Petrographical Microscope.
M. E. WADSWORTH 20
Representative American Laboratories. I. Cornell University. . . L. B. ELLIOTT 23
The Sectioning of Seeds.
MASON B. THOMAS 32
A Single Steam Sterilizer. (Translation.)
F. G. NOVY 33
A Convenient Water Bath.
WILLIAM MAHON 33
Abstracts 34
Editorial 36
Notes and Queries 36
Publication Department, BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y.
LONDON: Bausch & Ward, Ltd., 6 Farringdon Avenue, E. C.

22. **BAUSCH & LOMB OPTICAL CO., Rochester, NY**. *Journal of Applied Microscopy*. Rochester, NY: Bausch & Lomb Optical Co., 1898-1903. ¶ 39 issues. Series: Vols. 1-VI – as noted below. 8vo. [Each issue contains about 48 pages]. Illustrated throughout. Original tannish-buff wrappers printed in brown. Ownership signatures of E. H. Knoche. Overall condition: Very good.

$ 275

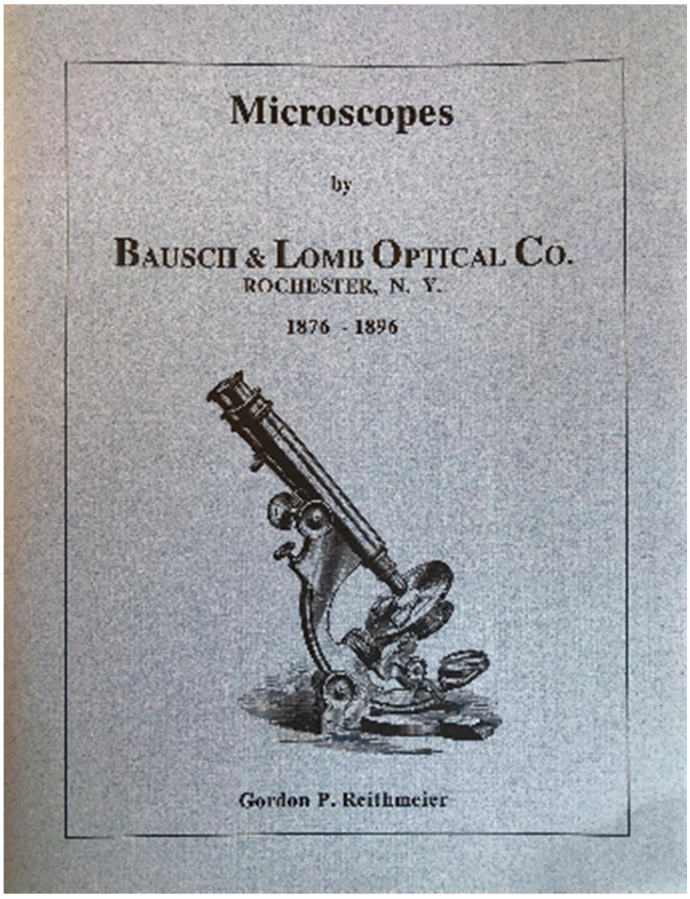
Fine gathering of this Journal of Applied Microscopy. The issues herein are: Vol. 1, nos. 2, 5, 6, 9, 10, Vol. II, nos. 1-8, 10, 12, Vol. III, nos. 1-5, 7-12, Vol. IV, nos. 1-12 (complete year), Vol. VI, no. 11, 1903 [covers off this one piece].

Some selected papers: M. E. WADSWORTH, Some methods of determining the positive or negative character of mineral plates in

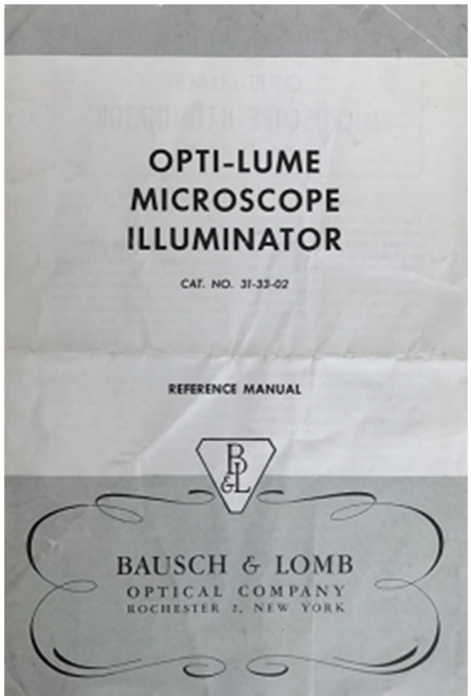
converging polarized light with the petrographical microscope – Wm. H. MYERS, The Microscope on a Man-o'-War – Charles A. KOFOID, Hints to the Construction of a Tow Net – Simon G. GAGE, William A. Rogers – James E. PEABODY, Microscopic Work in Large Classes – L. C. GLENN, Notes on Preparing Foraminiferal Material for Study – Charles J. CHAMBERLAIN, Methods of Plant Histology – E. Mead WILCOX, A Convenient Washing Apparatus – John H. SCHAFFNER, A Good Killing Fluid – F. M. McFARLAND, Histological Fixation by Injection – E. E. Bogue, An Adjustable Dissecting Microscope – Raymond Pearl, On Preparing Earthworms for Sectioning – Charles H. POTTER, Practicable Photomicrography – E. M. CHAMOT, Micro-Chemical Analysis – Edward BAUSCH, The Duplex Substage – T. E. OERTEL, Synthetic Alcohol as a Fixing Agent for Tissues – A. L. BENEDICT, The Camera Lucida in Blood Counting – J. B. NICHOLS, A Device for Supporting Pasteur Flasks – Charles S. Minot, Improved Automatic Microtomes, etc. Added to every issue are reviews of current literature relating to microscopy, zoology, biology, botany, physiology, pathological histology, cytology, embryology and microscopical methods, etc.

Provenance: Dr. Edward Louis Herman Knoche (1870-1945), botanist, German parents, studied botany at Stanford University, studied more in France, taking his PhD in Montpellier, settled in San Jose, was an "authority on the flora of the Balearic and Canary Islands" off the coast of Spain.

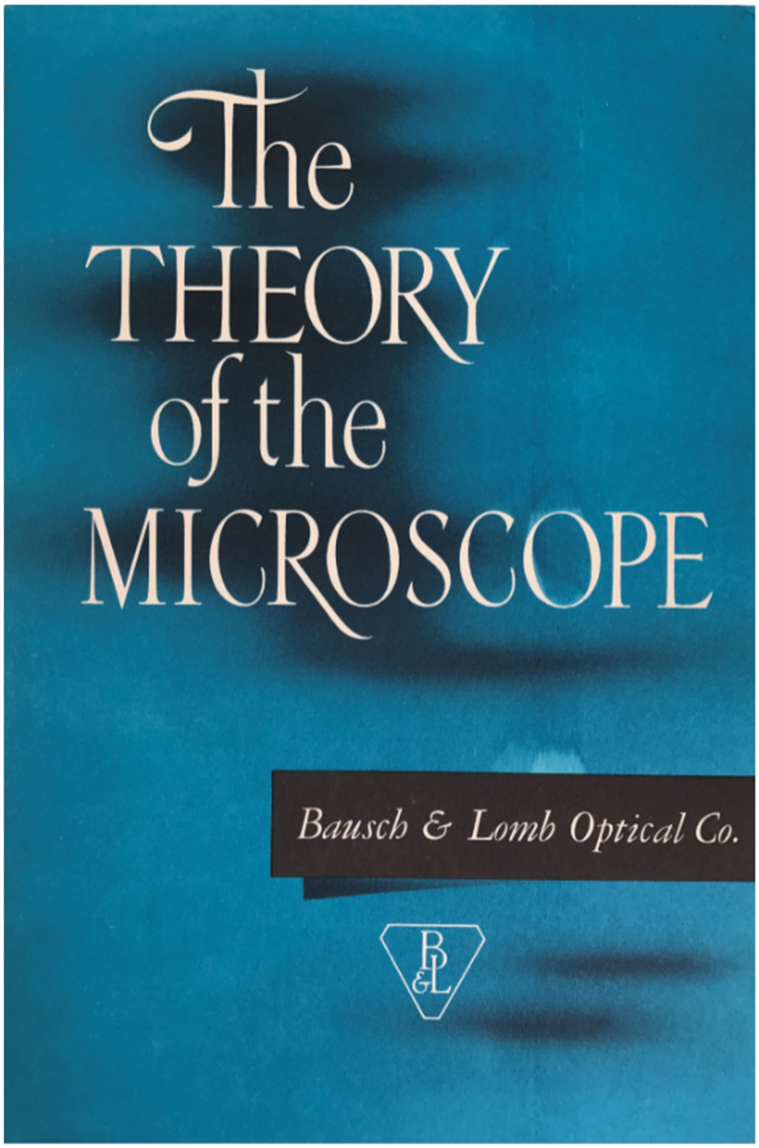
23. **BAUSCH & LOMB OPTICAL CO., Rochester, NY**. *Microscope Equipment for the [Amateur]*. Rochester, NY: Bausch & Lomb Optical Co., [n.d.]. ¶ 30 cm. 23, [1] pp. Illus. Self-wrappers; words on title obscured. Rare. $ 45



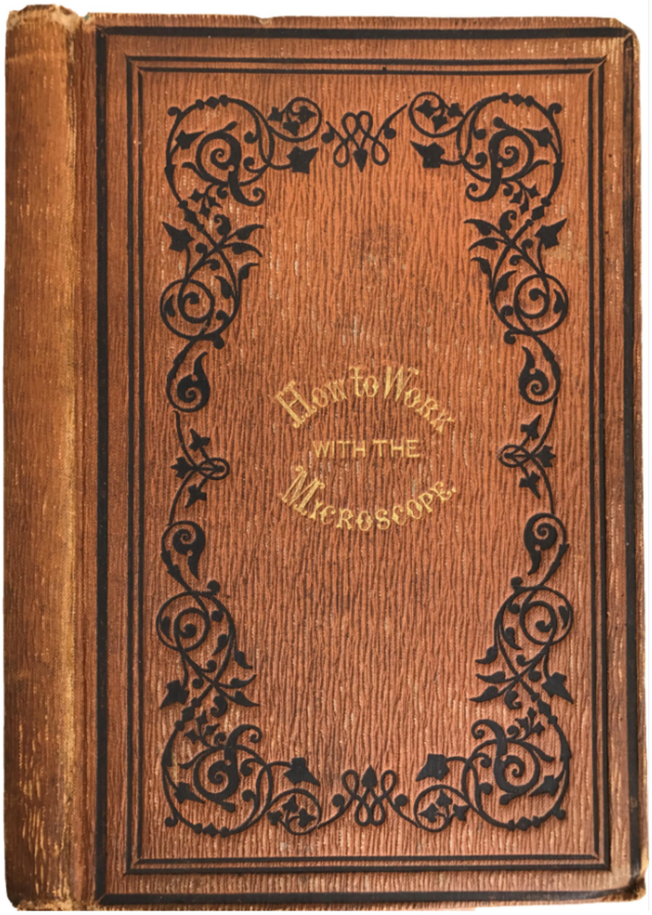
24. **BAUSCH & LOMB OPTICAL CO., Rochester, NY**; **Gordon P. REITHMEIER**. *Microscopes by Bausch & Lomb Optical Co., Rochester, NY, 1876-1896*. Fallbrook: Gemmary, (2000). ¶ 4to. v, 57 pp. Figs. Original printed wrappers. Fine. Scarce. $ 45

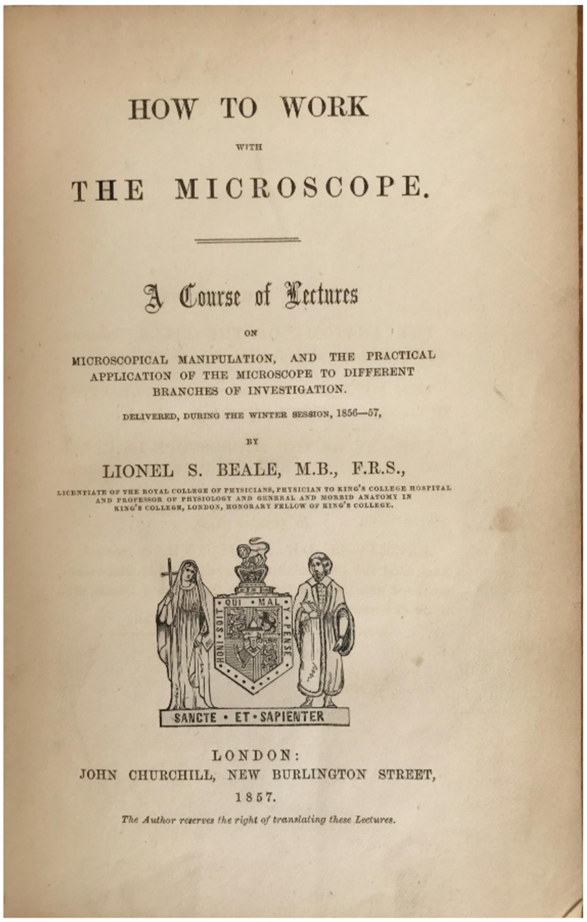


25. **BAUSCH & LOMB OPTICAL CO., Rochester, NY**. *Opti-Lume Microscope Illuminator. Cat. no. 31-33-02. Reference Manual.* Rochester, NY: Bausch & Lomb Optical Co., [1960s]. ¶ 22.5 cm. [6] pp. [1 sheet folded twice]. 2 illustrations. Self-wraps; creased. Very good. $ 15



26. **BAUSCH & LOMB OPTICAL CO., Rochester, NY; James R. BENFORD**. *The Theory of the Microscope*. Rochester, NY: Bausch & Lomb Optical Co., 1956. ¶ 22 cm. 20 pp. Illustrated. Blue & black printed wrappers. Ownership signature of Frederick Herzig. Very good. $ 10





HOW TO WORK

WITH

THE MICROSCOPE.

A Course of Lectures

ON

MICROSCOPICAL MANIPULATION, AND THE PRACTICAL APPLICATION OF THE MICROSCOPE TO DIFFERENT BRANCHES OF INVESTIGATION.

DELIVERED, DURING THE WINTER SESSION, 1856—57,

BY

LIONEL S. BEALE, M.B., F.R.S.,

LICENTIATE OF THE ROYAL COLLEGE OF PHYSICIANS, PHYSICIAN TO KING'S COLLEGE HOSPITAL AND PROFESSOR OF PHYSIOLOGY AND GENERAL AND MORBID ANATOMY IN KING'S COLLEGE, LONDON, HONORARY FELLOW OF KING'S COLLEGE.

SANCTE · ET · SAPIENTER

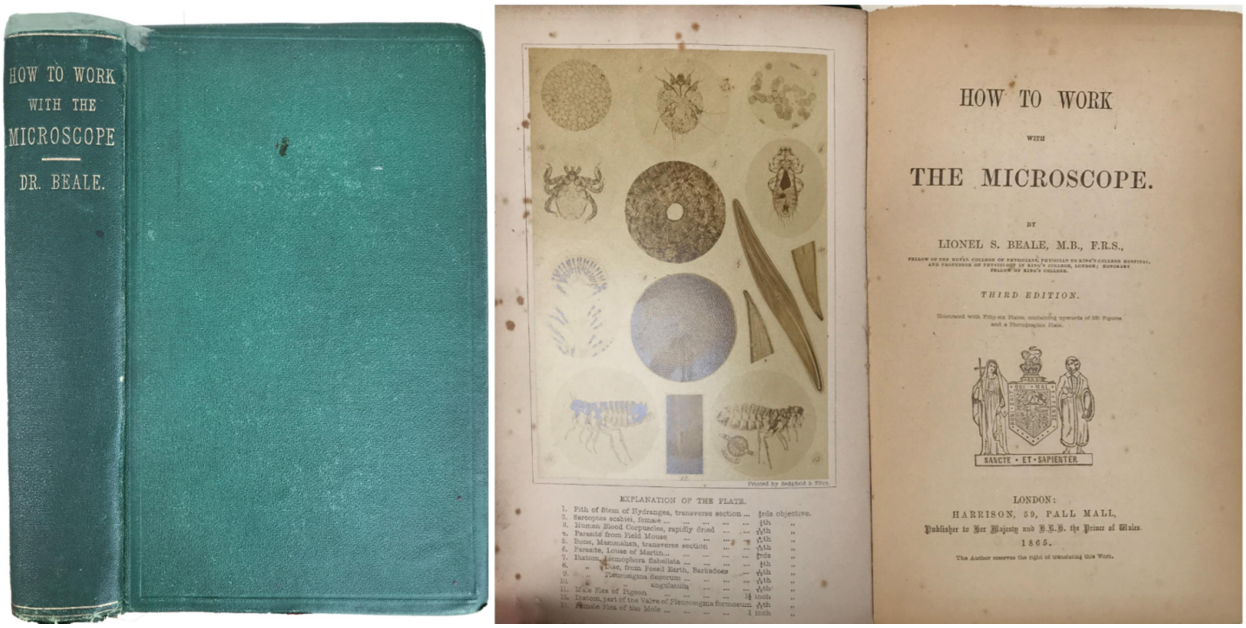
LONDON:
JOHN CHURCHILL, NEW BURLINGTON STREET,
1857.

The Author reserves the right of translating these Lectures.

27. **BEALE, Lionel S. (Lionel Smith),** (1828-1906). *How to Work with the Microscope. A course of lectures on the practical use of the instrument and microscopical manipulation, and the practical application of the microscope to different branches of investigation.* London: John Churchill, 1857. ¶ 12mo. xii, 124 pp. Tables, index. Original full tannish-brown gilt and black-stamped cloth; rubbed. Very good.

$ 35

Contains eight lectures on the microscope. There were two issues of this work: one with illustrations and the other without illustrations – this is the latter.

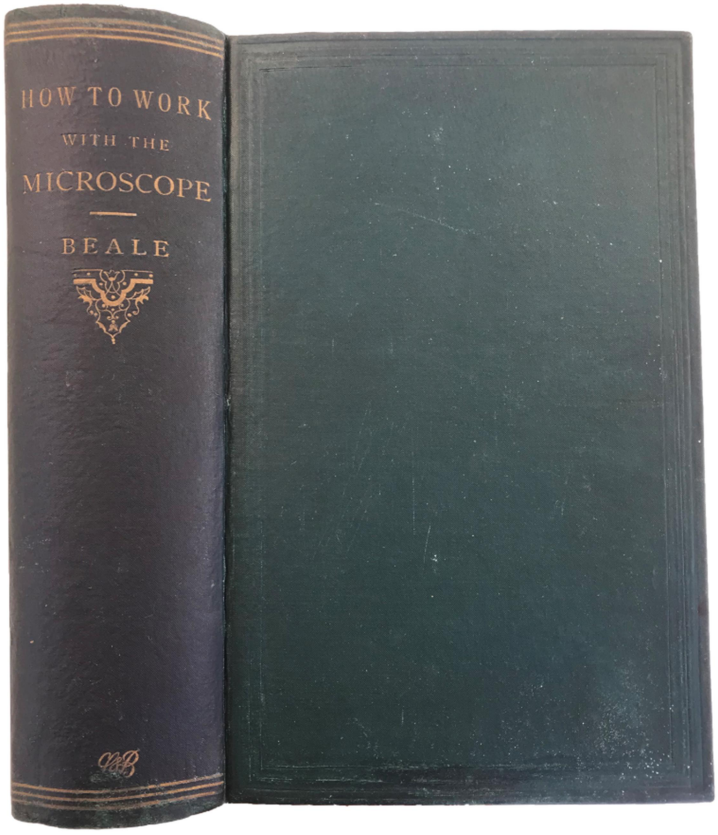


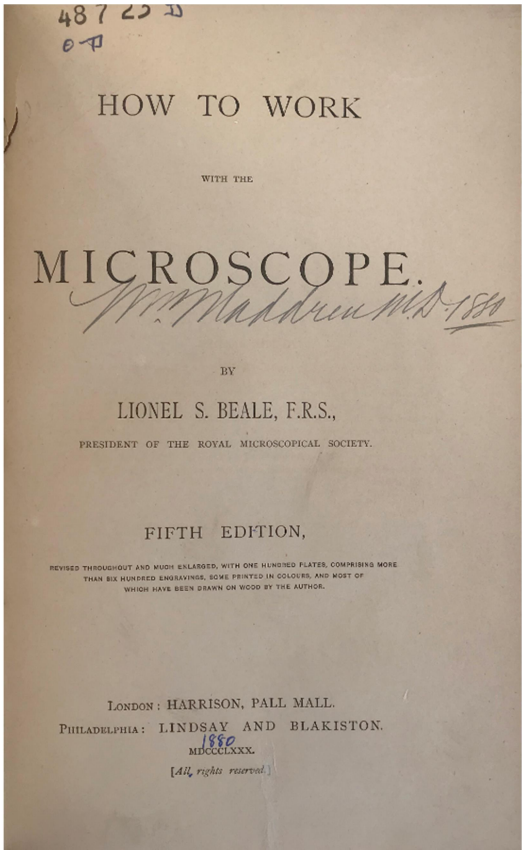
28. **BEALE, Lionel S. (Lionel Smith),** (1828-1906). *How to Work with the Microscope. Third edition*. London: Harrison, 1865. ¶ 8vo. xvi, 272, [2] pp. ORIGINAL PHOTOGRAPHIC FRONTISPIECE, 56 plates (250 figures), index; some foxing. Original full green blind- and gilt-stamped cloth; top spine mended, very light wear. Bookplate of Grove Rowson Berry. Very good.

$ 50

This new edition is much expanded and more thoroughly illustrated. The original photographic frontispiece is contributed by Dr. Maddox, who also assisted the author in writing the chapter on micro-photography.

Grove Rowson Berry (1840-1876), of Harrogate and New Brighton, U.K., was a surgeon, member of the Royal Medical Society of Edinburgh. See: *The London Gazette*, May 5, 1876. Details of Berry seem sketchy and he apparently died in 1876, and young as such.




HOW TO WORK

WITH THE

MICROSCOPE.

BY

LIONEL S. BEALE, F.R.S.,

PRESIDENT OF THE ROYAL MICROSCOPICAL SOCIETY.

FIFTH EDITION,

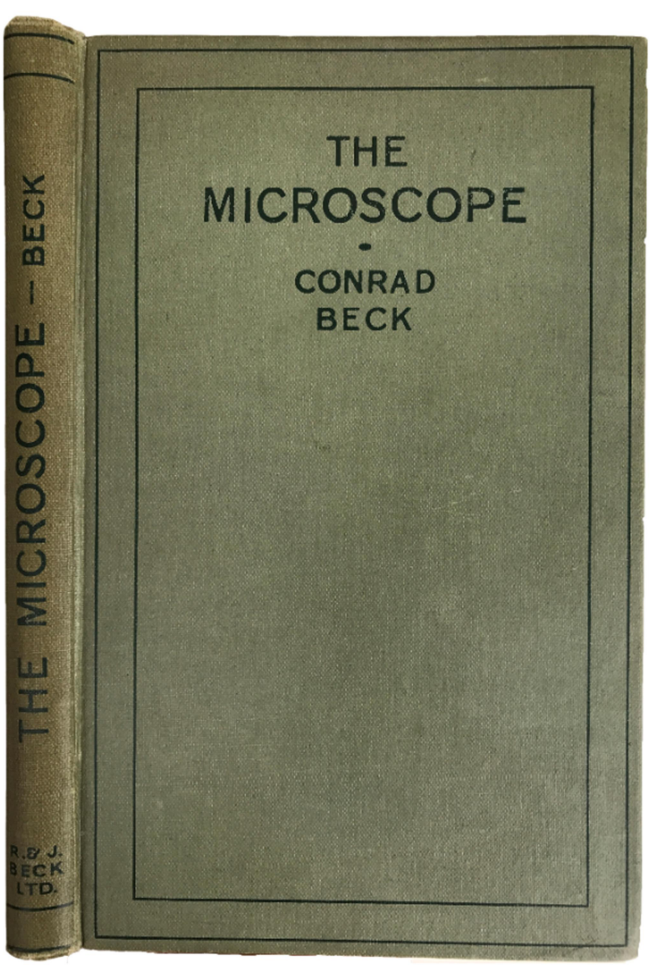
REVISED THROUGHOUT AND MUCH ENLARGED, WITH ONE HUNDRED PLATES, COMPRISING MORE THAN SIX HUNDRED ENGRAVINGS, SOME PRINTED IN COLOURS, AND MOST OF WHICH HAVE BEEN DRAWN ON WOOD BY THE AUTHOR.

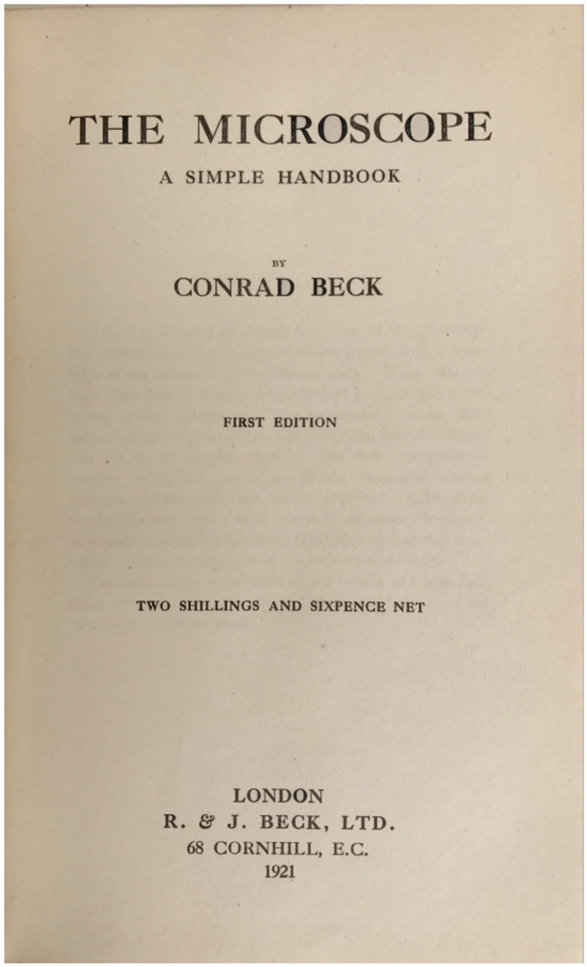
LONDON: HARRISON, PALL MALL.
PHILADELPHIA: LINDSAY AND BLAKISTON.
MDCCCLXXX.
[*All rights reserved.*]

29. **BEALE, Lionel S. (Lionel Smith),** (1828-1906). *How to Work with the Microscope*. London: Harrison, 1880. ¶ Fifth edition. Thick 8vo. xvi, 518, 15 pp. 100 engraved plates (some color), tables, index; pp. 29-34 torn (2 plates affected), pp. 35 & 243 with ink marginalia, pp. 401-402 extremities neatly rebuilt with Japanese paper, pp. 471-472 neatly repaired, short tear at gutter of title, title with minor ink marking. Original dark green cloth, gilt spine. Early ink ownership signature on title. Very good binding, with brittle paper. [S7453]

$ 115

Beale's comprehensive guide to microscopes with 100 engraved plates depicting various types of microscopes and microscopic techniques. "Beale's contemporary reputation derived primarily from his practical books on the microscope and from his vocal opposition to the mechanistic interpretation of life." *DSB* I, p. 540. A classic work and an extraordinarily strong collection of engraved images of early microscopes.

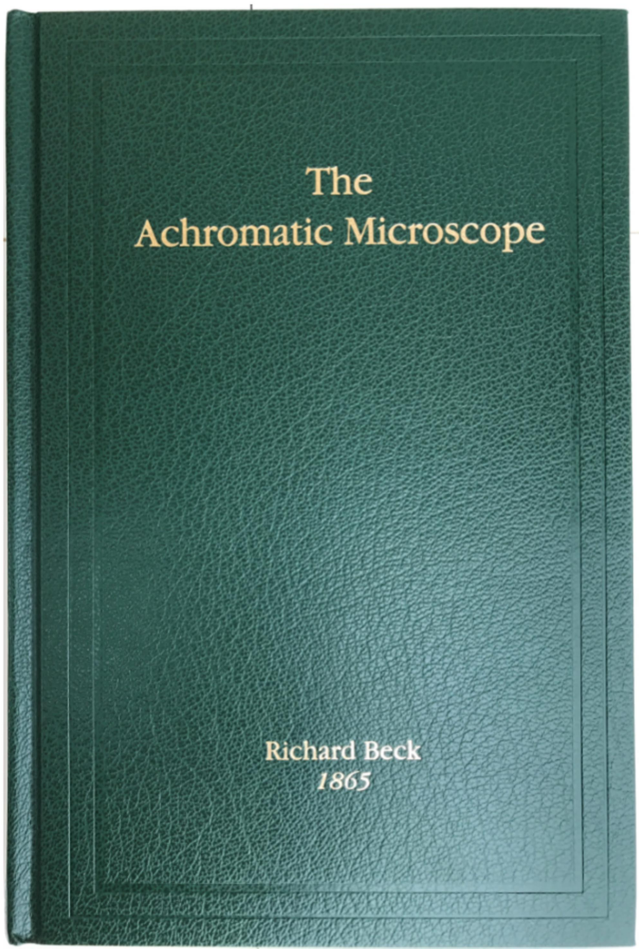


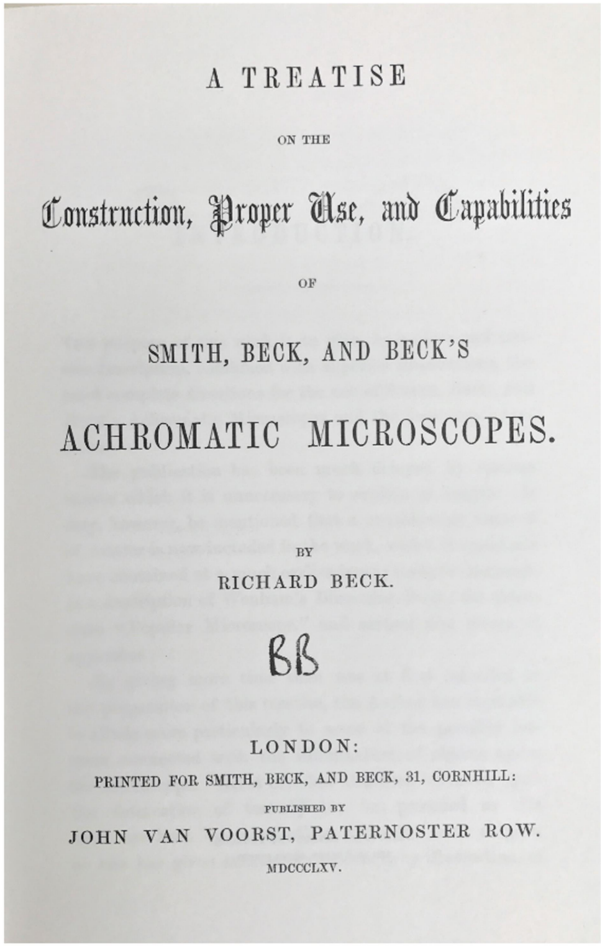


30. **BECK, Conrad**. *The Microscope; a simple handbook. First edition*. London: R. & J. Beck, Ltd., 1921. ¶ Small 8vo. 144 pp. 131 figures. Pale green black-stamped cloth. Fine.

$ 15

Hartley rates this his #7 most favorite microscopy book: "I bought Conrad Beck [7] early in the war: it is the only microscope book I've taken to bed to read. If only it had not considered only Beck instruments, it would have been the universal ideal. It is notable for dealing with resolution in terms of anti-points, not the diffraction theory, the approach of J W Gordon, with whom Beck used to have verbal battles in the early twentieth century." – Gilbert Hartley," A dozen favourite books on microscopy", *Quekett Journal of Microscopy*, 2005, 40, 39–40.




A TREATISE

ON THE

Construction, Proper Use, and Capabilities

OF

SMITH, BECK, AND BECK'S

ACHROMATIC MICROSCOPES.

BY

RICHARD BECK.

LONDON:

PRINTED FOR SMITH, BECK, AND BECK, 31, CORNHILL:

PUBLISHED BY

JOHN VAN VOORST, PATERNOSTER ROW.

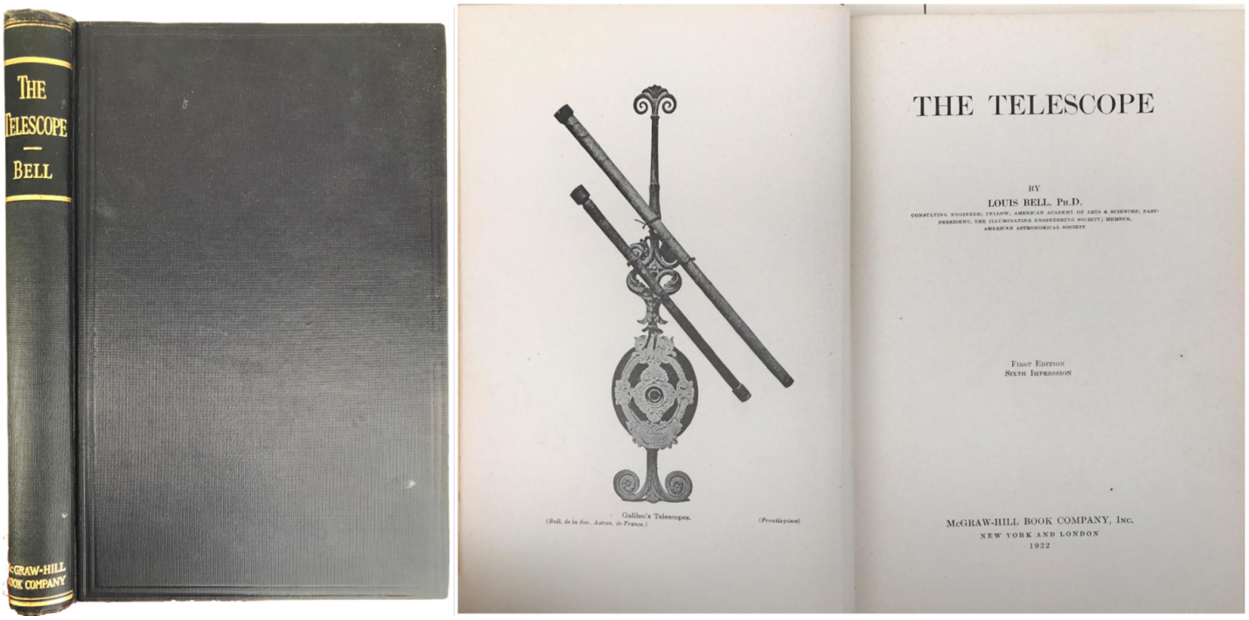
MDCCCLXV.

31. **BECK, Richard.** *A Treatise on the Construction, Proper Use, and Capabilities of Smith, Beck, and Beck's Achromatic Microscopes*. London: John Van Voorst, 1865. [Lincolnwood: Science Heritage Pub., 1987]. ¶ Facsimile. 8vo. viii, 144 pp. 28 plates. Full blind and gilt-stamped dark green leatherette. Fine. ISBN 10: 0940095068

$ 45

This is number 4 on the Brian Bracegirdle list of his 12 favorite microscopy books: "My fourth choice is Beck's work on the achromatic microscope. Richard Beck died soon after this was

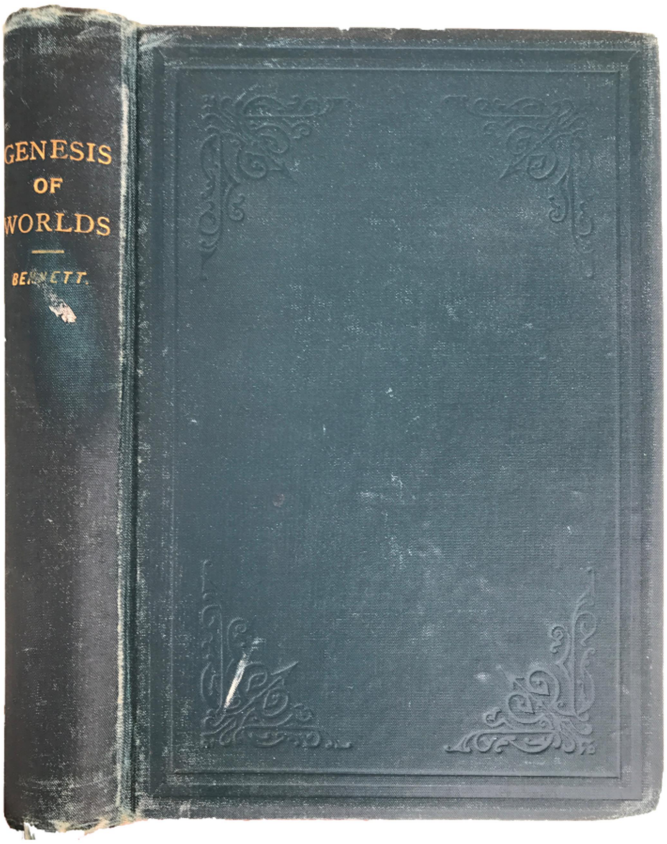
published in 1865, but I know that he had already started to think of a new edition. I know this because my own copy once belonged to him, and has been extensively written over with alterations in his own hand, with the illustrations from another copy cut up and pasted into different locations. The work is important because it gives full directions for using the microscopes and accessories made by Smith, Beck, & Beck, and thus an insight into the use of instruments made by others. The text is a model of clarity, but it is the plates which excel. The ones in my copy have had their outer margins cut out and numbered just like an indexed notebook, and all 28 of them are of the highest quality in engraving and printing. A few show the results of observations, included to show what was achieved by use of particular techniques: plate 14 shows darkground illumination of Polycystina from Barbados, and is unsurpassed for its stunning quality. Most show details of instruments, and are key for identifying the parts found in cases of accessories from the time. This is a super book, a pleasure to read and re-read for its clarity and even its beauty. Fortunately it has been reprinted, for originals are scarce and expensive." – *Quekett Journal of Microscopy*, 2004, 39, pp. 655–659.

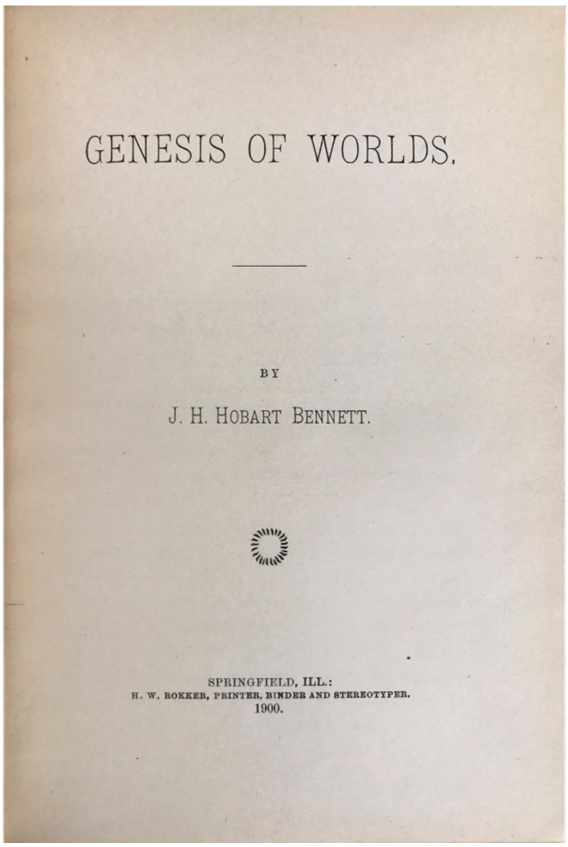


32. **BELL, Louis** (1864-1923). *The Telescope*. New York & London: McGraw-Hill, 1922.

¶ First edition, sixth impression. 8vo. ix, 287 pp. Frontis., 190 figures, index. Original navy blind- and gilt-stamped cloth. Ownership signature of Richard M. Jefts, 1950. Very good.

$ 15




GENESIS OF WORLDS.

BY

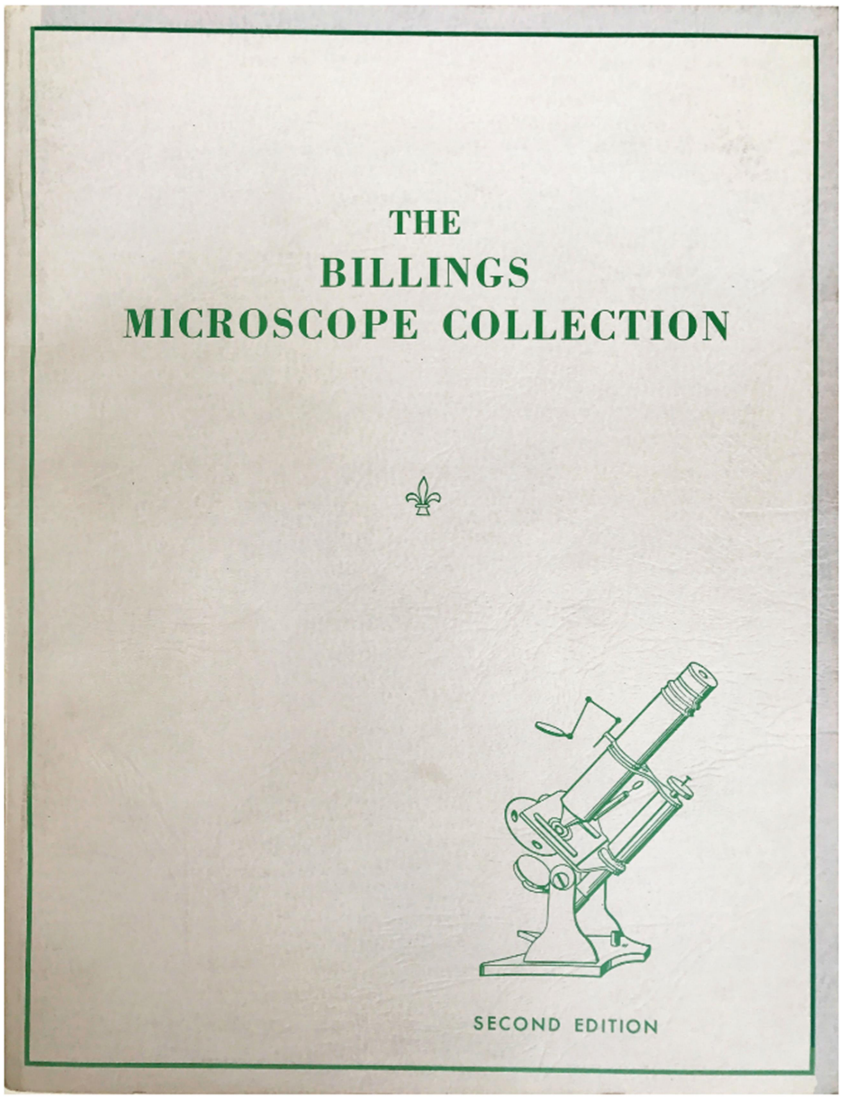
J. H. HOBART BENNETT.

SPRINGFIELD, ILL.:
H. W. BOKKER, PRINTER, BINDER AND STEREOTYPER.
1900.

33. **BENNETT, J. H. Hobart.** *Genesis of Worlds*. Springfield, IL: H. W. Bokker, 1900. ¶ 8vo. xvi, 345 pp. Errata slip. Original dark blue-green blind and gilt-stamped cloth; rubbed, inner joint strengthened with kozo. Very good. Scarce.

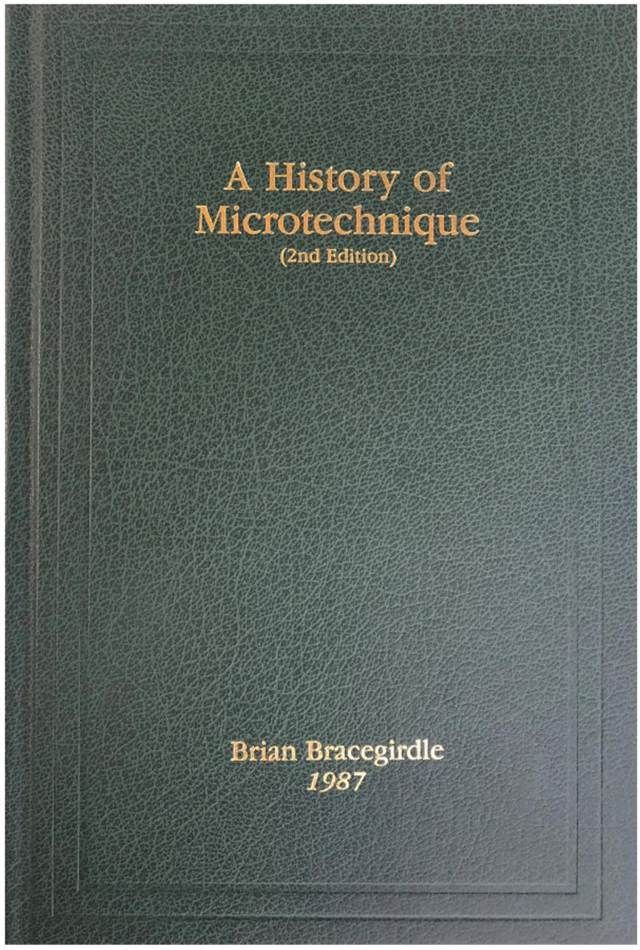
$ 30

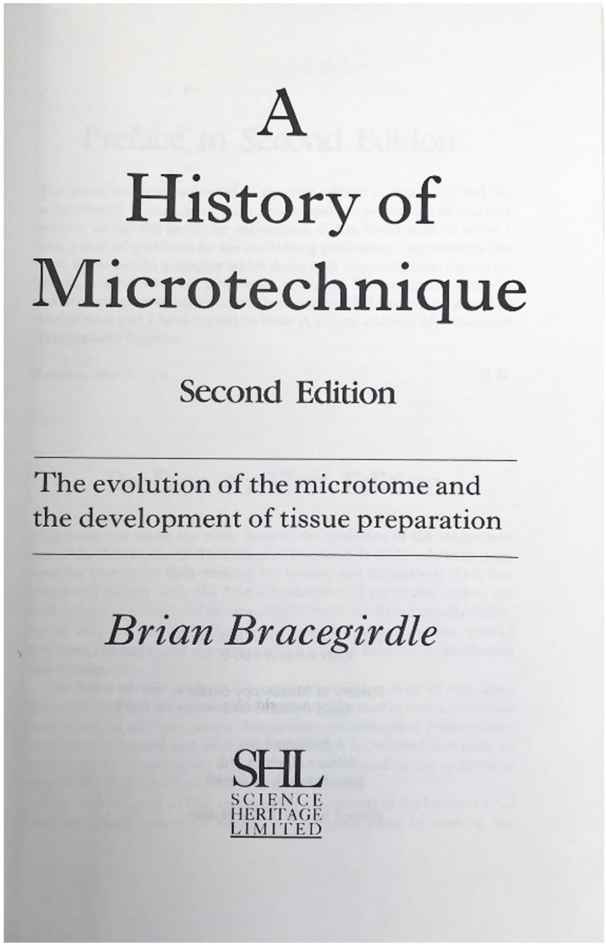
Contents: Nebular Hypothesis -- the Sun; Comets; Zodiacal Light; Transmutation of the Earth's Crust; Elevations – Volcanoes; Generations of Stars; Dissolution of Worlds; Intelligencies – Their Interests and Destinies. "This work ... is the product of a mind deeply interested in the problems of cosmogony and apparently ready to accept the demonstrations of science, but yet still under the dominance of the traditional anthrophic mode of thought." – [Review] Journal of Geology, Volume 8, Number 1 | Jan. - Feb., 1900.



34. [**Billings Microscope Collection**] **HANSEN, James L.,** et al. *The Billings Microscope Collection of the Medical Museum Armed Forces Institute of Pathology.* Washington, D.C.: Armed Forces Institute of Pathology, 1987. ¶ Second edition. 4to. xx, 244 pp. Numerous photos of microscopes in the collection with detailed descriptions, index. Pictorial wrappers. FINE COPY.

$ 40

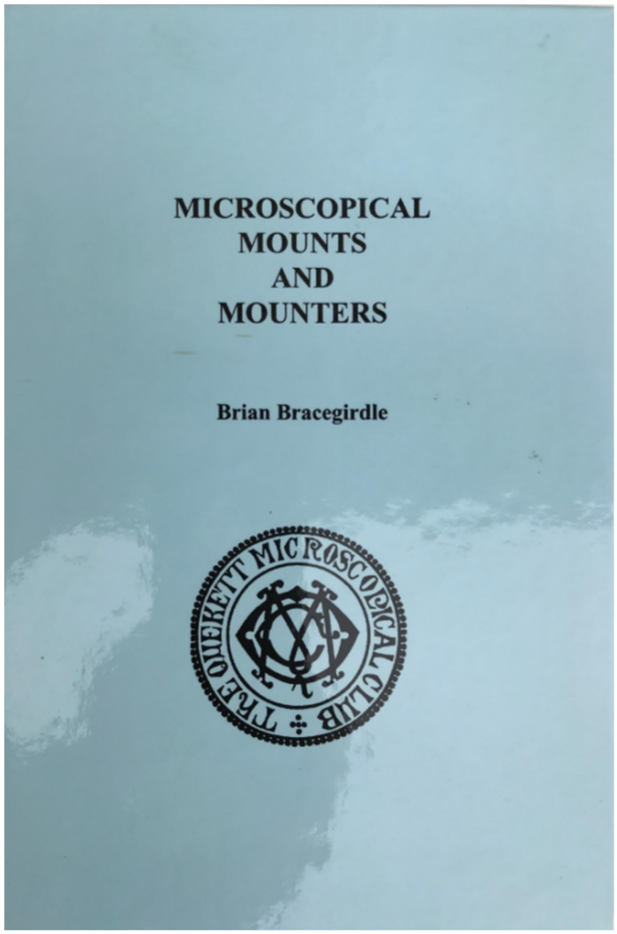




35. **BRACEGIRDLE, Brian**. *A History of Microtechnique. Second edition. The evolution of the microtome and the development of tissue preparation*. Lincolnwood, IL: Science Heritage Ltd., 1987. ¶ 8vo. xv, 348, (367)-393 pp. 78 color illustrations, 150 figures, index. Full blind and gilt-stamped dark green leatherette. Defective copy [lacks pages 349-366]. ISBN 10: 0940095009

[Was $175] $ 25

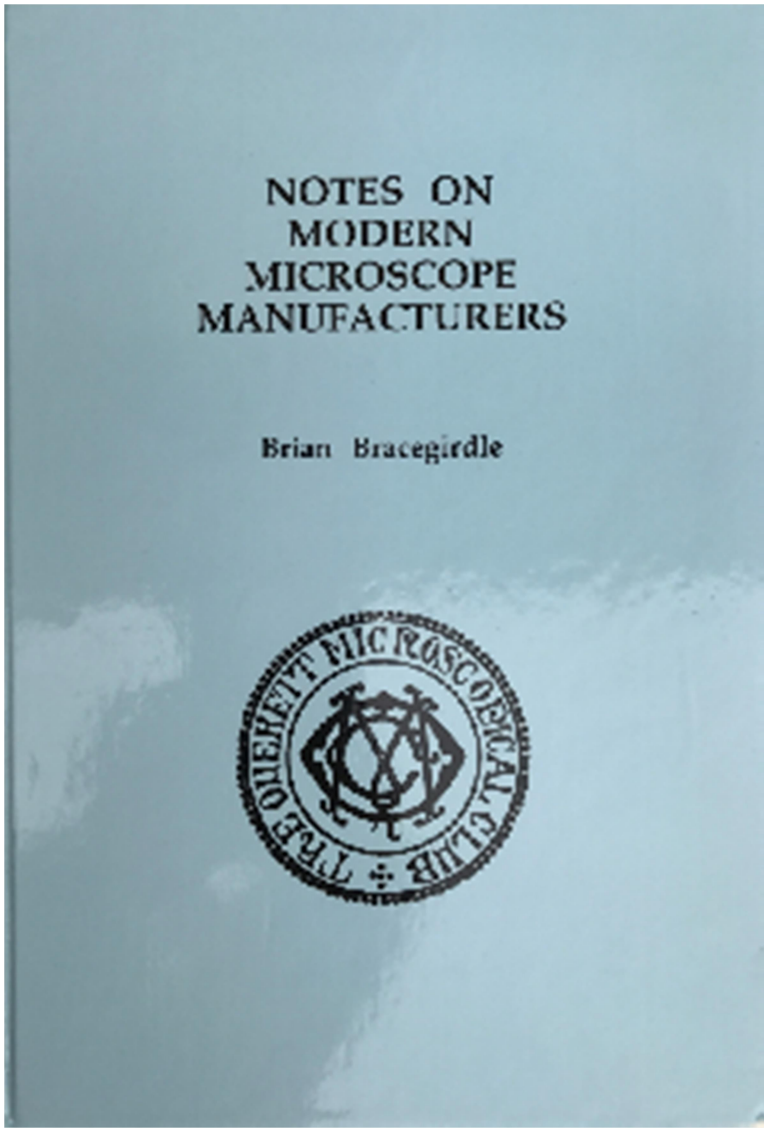
Second edition. Lacks color plates 5-67, all 150 figures are present. Missing are pages 349-366 (the last of the final chapter), plus 5 plates at rear are present in duplication. See: Garrison-Morton 567.2 (citing 1978 first edition).



36. **BRACEGIRDLE, Brian**. *Microscopical Mounts and Mounters*. Oxford: Quekett Microscopical Club, 1998. ¶ 8vo. vi, 224 pp. Including 60 full color plate illustrations, additional figures. Original light-blue boards. Fine. ISBN 0951444131

$ 125

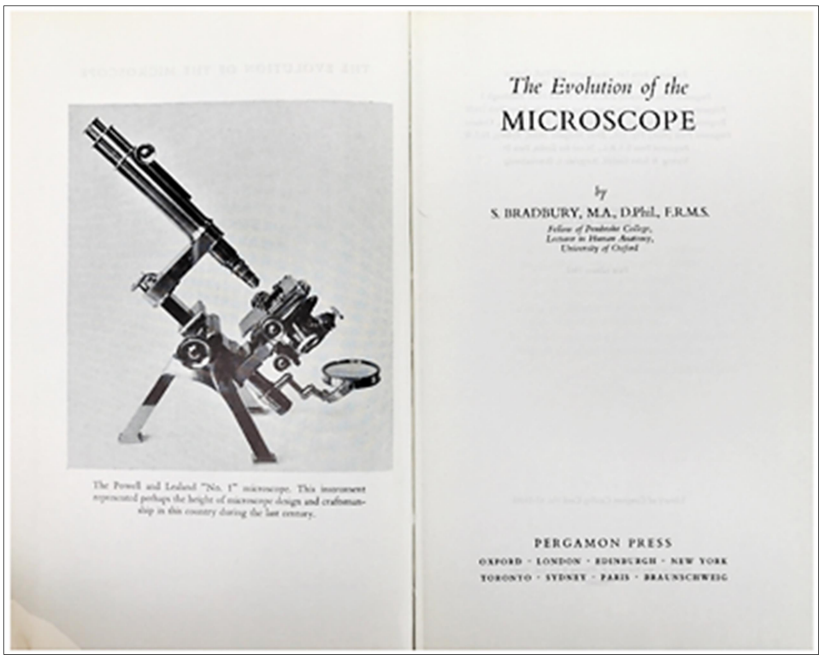
Very usual work on the history of commercial microscopical mounting. “Almost 1000 preparations have been illustrated in full colour at near life-size.”



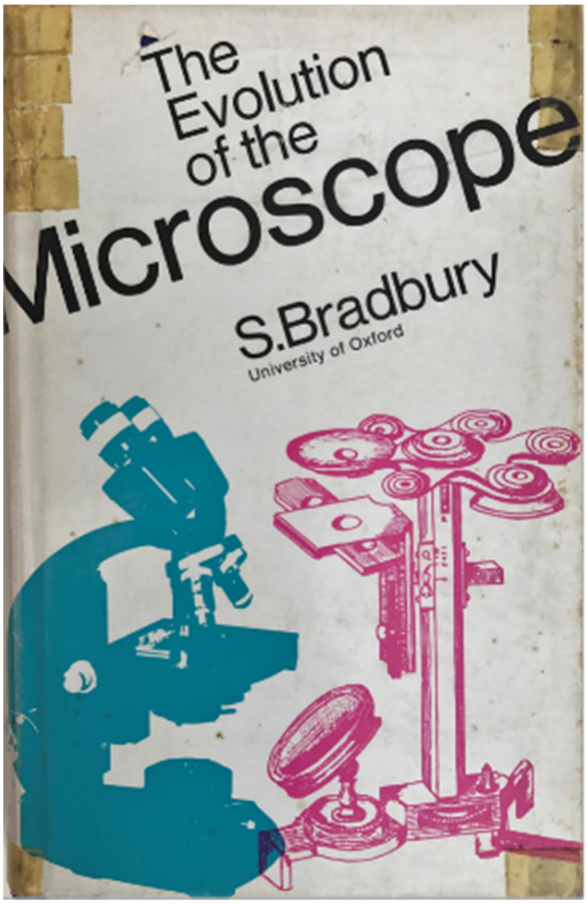
37. **BRACEGIRDLE, Brian**. *Notes on Modern Microscope Manufacturers*. Oxford: Quekett Microscopical Club, 1996. ¶ 8vo. xiii, 88 pp. Original light-blue boards. Fine. ISBN 10: 0951444174

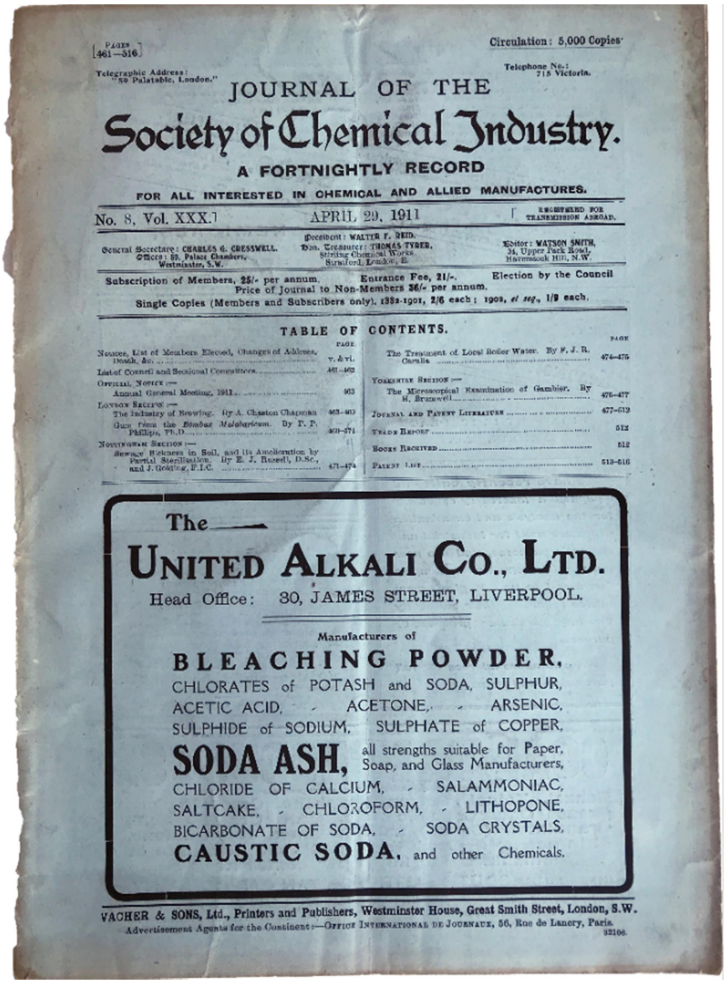
$ 50

Seen as a supplement to the SIMON index, the author has put his special interests of post-1850 microscope makers and the twentieth century makers, into a dictionary format for easy use.



38. **BRADBURY, Savile**. *The Evolution of the Microscope*. Oxford: Pergamon Press, (1967). ¶ 8vo. x, 357 pp. Figures, index. Original blue gilt-stamped cloth, dust-jacket; jacket worn, cellophane tape affixed to covers. Very good (save for the jacket). $ 40





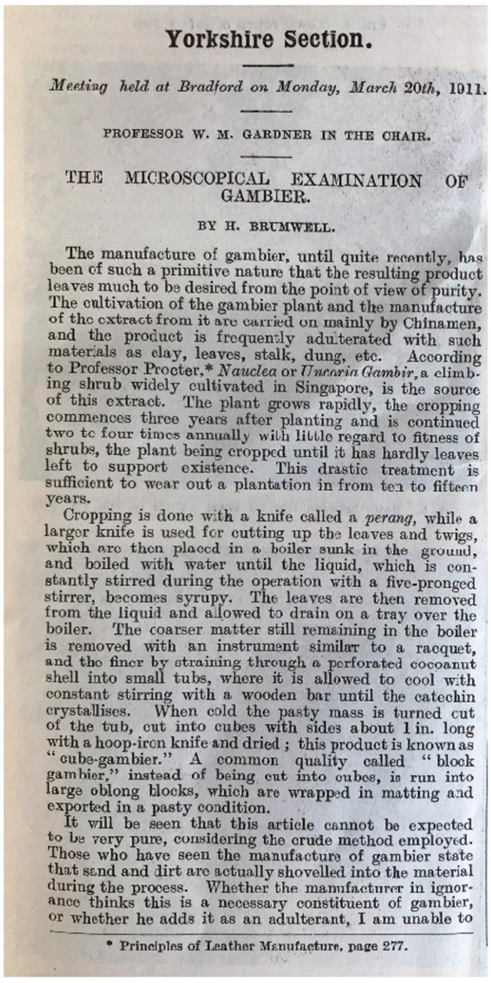
JOURNAL OF THE
Society of Chemical Industry.
A FORTNIGHTLY RECORD
FOR ALL INTERESTED IN CHEMICAL AND ALLIED MANUFACTURES.

No. 8, Vol. XXX.] APRIL 29, 1911 [REGISTERED FOR TRANSMISSION ABROAD.

Circulation: 5,000 Copies.

TABLE OF CONTENTS.

The
UNITED ALKALI CO., LTD.
Head Office: 30, JAMES STREET, LIVERPOOL.
Manufacturers of
BLEACHING POWDER.
CHLORATES of POTASH and SODA, SULPHUR,
ACETIC ACID, - ACETONE, - ARSENIC,
SULPHIDE of SODIUM, SULPHATE of COPPER.
SODA ASH, all strengths suitable for Paper, Soap, and Glass Manufacturers,
CHLORIDE OF CALCIUM, - SALAMMONIAC,
SALTCAKE, - CHLOROFORM, - LITHOPONE,
BICARBONATE OF SODA, - SODA CRYSTALS,
CAUSTIC SODA, and other Chemicals.



Yorkshire Section.

Meeting held at Bradford on Monday, March 20th, 1911.

PROFESSOR W. M. GARDNER IN THE CHAIR.

THE MICROSCOPICAL EXAMINATION OF GAMBIER.

BY H. BRUMWELL.

The manufacture of gambier, until quite recently, has been of such a primitive nature that the resulting product leaves much to be desired from the point of view of purity. The cultivation of the gambier plant and the manufacture of the extract from it are carried on mainly by Chinamen, and the product is frequently adulterated with such materials as clay, leaves, stalk, dung, etc. According to Professor Procter.* *Nauclea* or *Uncaria Gambir*, a climbing shrub widely cultivated in Singapore, is the source of this extract. The plant grows rapidly, the cropping commences three years after planting and is continued two to four times annually with little regard to fitness of shrubs, the plant being cropped until it has hardly leaves left to support existence. This drastic treatment is sufficient to wear out a plantation in from ten to fifteen years.

Cropping is done with a knife called a *perang*, while a larger knife is used for cutting up the leaves and twigs, which are then placed in a boiler sunk in the ground, and boiled with water until the liquid, which is constantly stirred during the operation with a five-pronged stirrer, becomes syrupy. The leaves are then removed from the liquid and allowed to drain on a tray over the boiler. The coarser matter still remaining in the boiler is removed with an instrument similar to a racquet, and the finer by straining through a perforated cocoanut shell into small tubs, where it is allowed to cool with constant stirring with a wooden bar until the catechin crystallises. When cold the pasty mass is turned out of the tub, cut into cubes with sides about 1 in. long with a hoop-iron knife and dried; this product is known as "cube-gambier." A common quality called "block gambier," instead of being cut into cubes, is run into large oblong blocks, which are wrapped in matting and exported in a pasty condition.

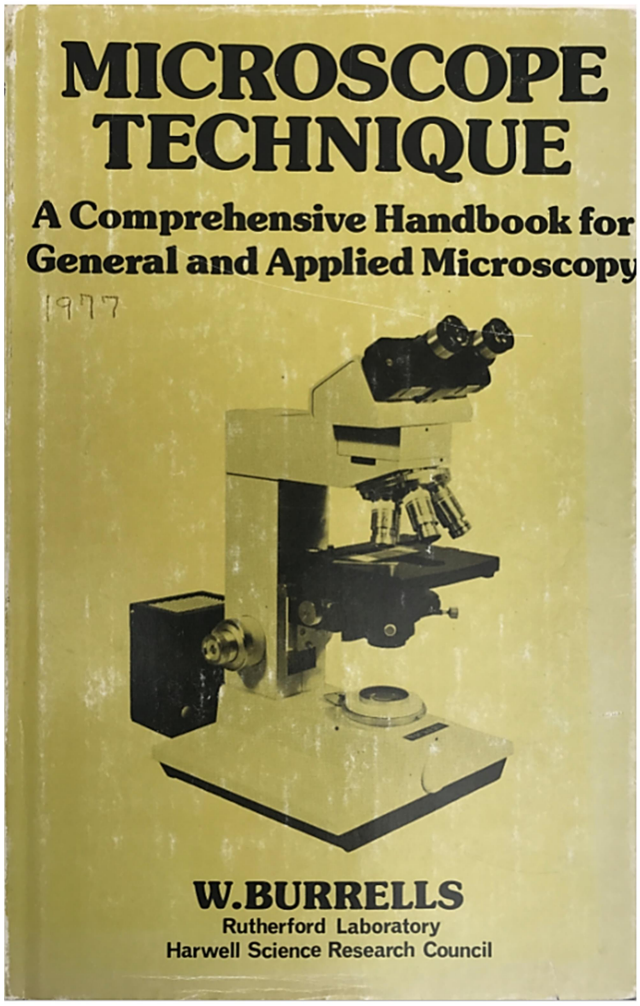
It will be seen that this article cannot be expected to be very pure, considering the crude method employed. Those who have seen the manufacture of gambier state that sand and dirt are actually shovelled into the material during the process. Whether the manufacturer in ignorance thinks this is a necessary constituent of gambier, or whether he adds it as an adulterant, I am unable to

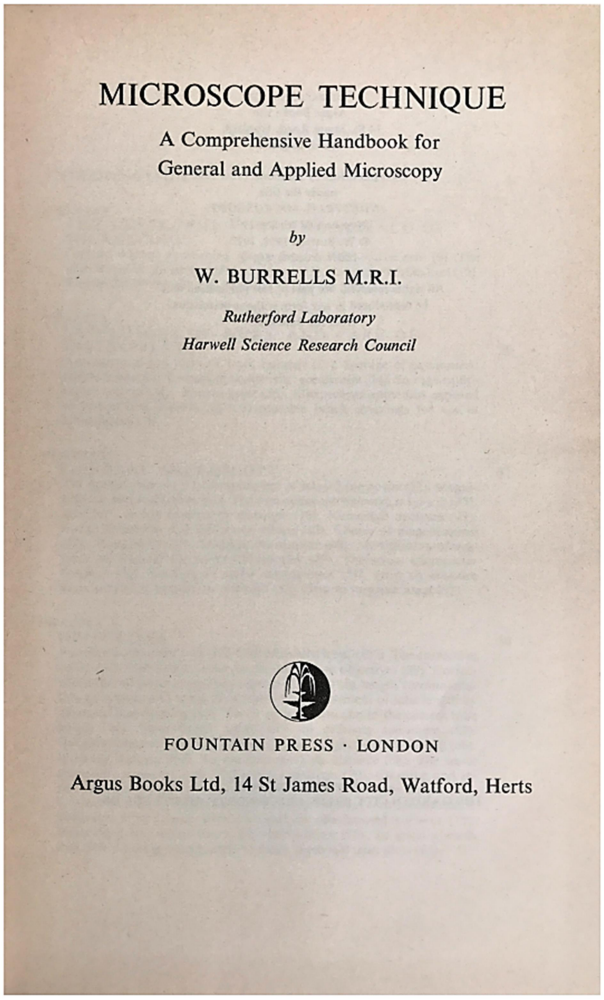
* Principles of Leather Manufacture, page 277.

39. **BRUMWELL, H**. "The Microscopical Examination of Gambier." London: Society of Chemical Industry, 1911. Series: Journal of the Society of Chemical Industry, no. 8, vol. XXX, April 29, 1911. ¶ 4to. pp. 475-477. 6 figs. Original printed wrappers; creased. Very good.

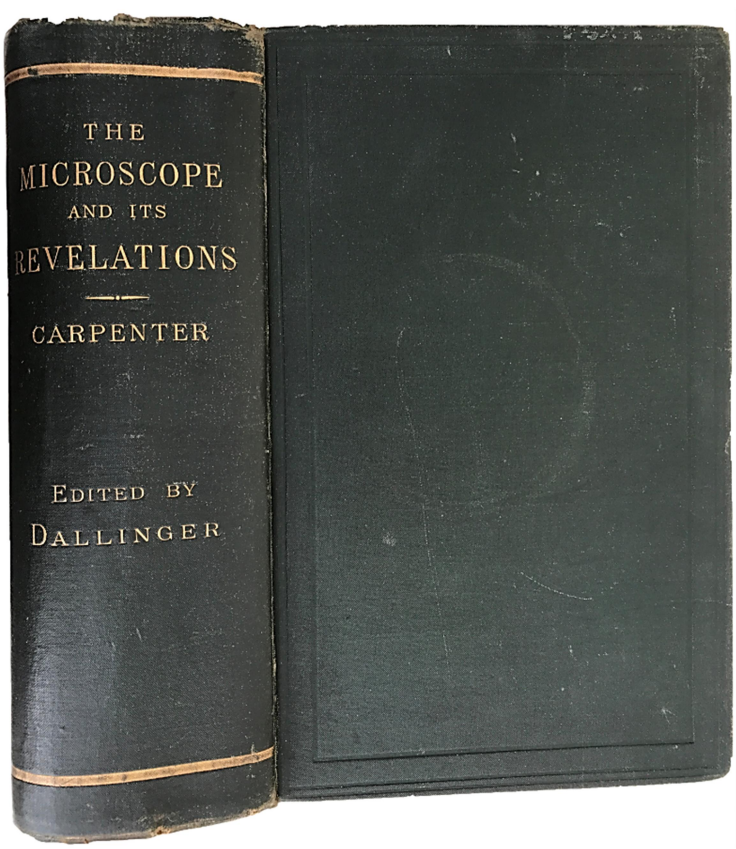
$ 25

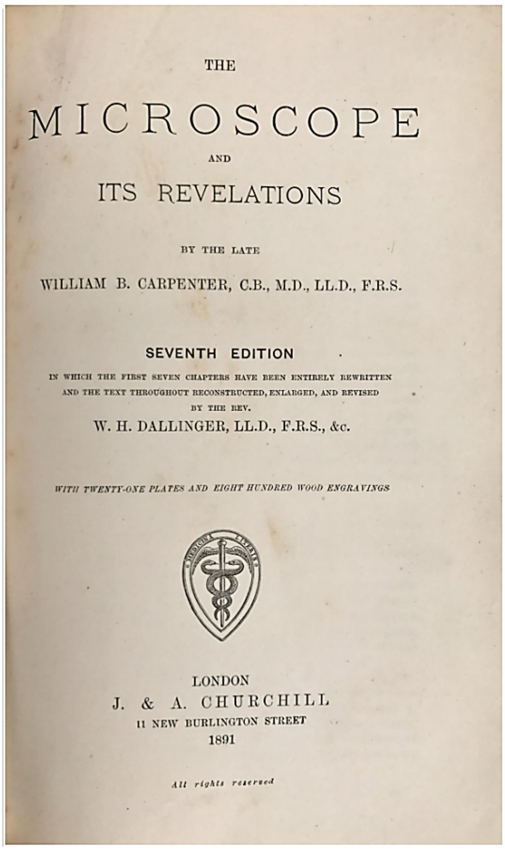
Complete issue of the Journal of the Society of Chemical Industry. Also includes: Chaston Chapman, "The Industry of Brewing"; P. P. Philips, "Gum from the Bombax Malabaricum.





40. **BURRELLS, W. (Walter).** *Microscope Technique: a comprehensive handbook for general and applied microscopy.* London: Fountain Press, 1977. ¶ 8vo. xi, 574 pp. Figures, index. Blue gilt-stamped cloth, dust-jacket; jacket rubbed. Ownership signature of Lou Austin. Very good. $ 22




THE

MICROSCOPE

AND

ITS REVELATIONS

BY THE LATE

WILLIAM B. CARPENTER, C.B., M.D., LL.D., F.R.S.

SEVENTH EDITION

IN WHICH THE FIRST SEVEN CHAPTERS HAVE BEEN ENTIRELY REWRITTEN AND THE TEXT THROUGHOUT RECONSTRUCTED, ENLARGED, AND REVISED BY THE REV.

W. H. DALLINGER, LL.D., F.R.S., &c.

WITH TWENTY-ONE PLATES AND EIGHT HUNDRED WOOD ENGRAVINGS

LONDON

J. & A. CHURCHILL

11 NEW BURLINGTON STREET

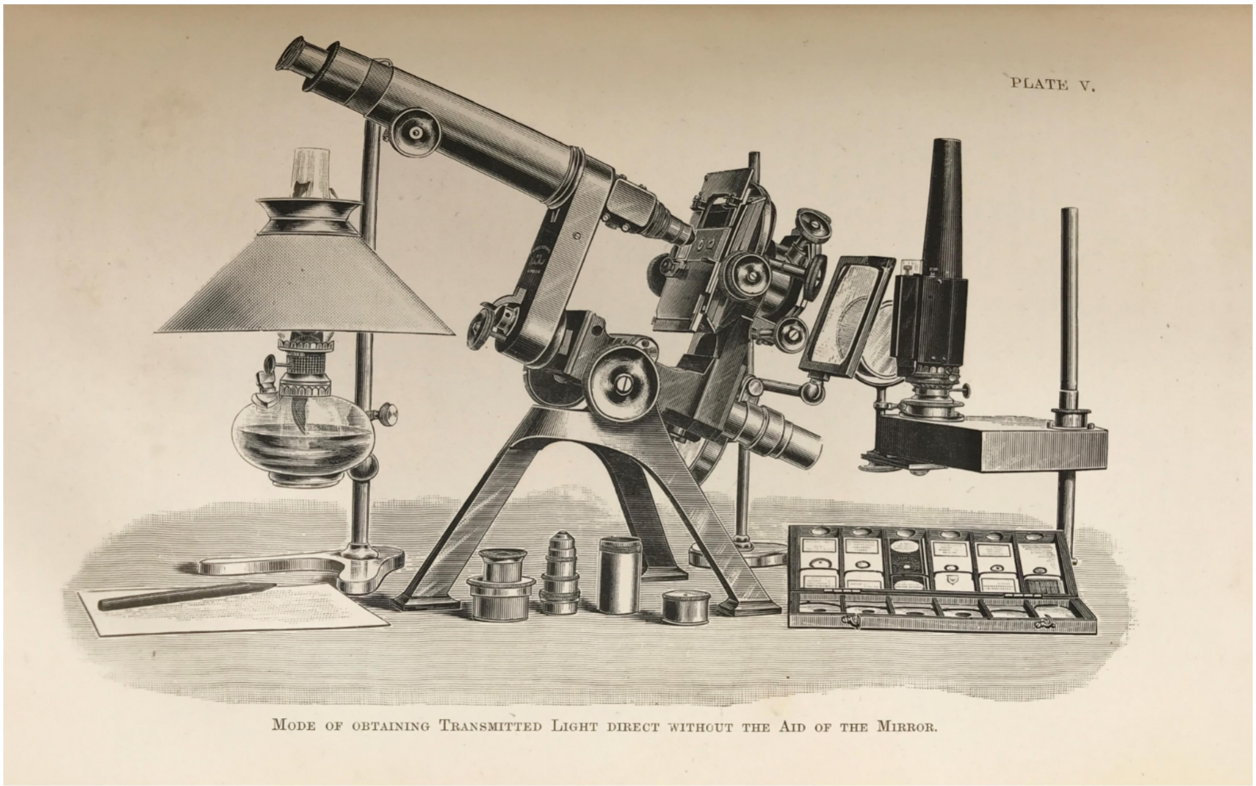
1891

41. **CARPENTER, William B.; DALLINGER, W. H**. *The Microscope and its Revelations. Eleventh edition*. London: J. & A. Churchill, 1891. ¶ Thick 8vo. xviii, 1099, [ii]-xvi pp. 21 plates, 800 wood engravings, index, ads. Original dark green blind and gilt-stamped cloth; rubbed. Very good.

$ 65

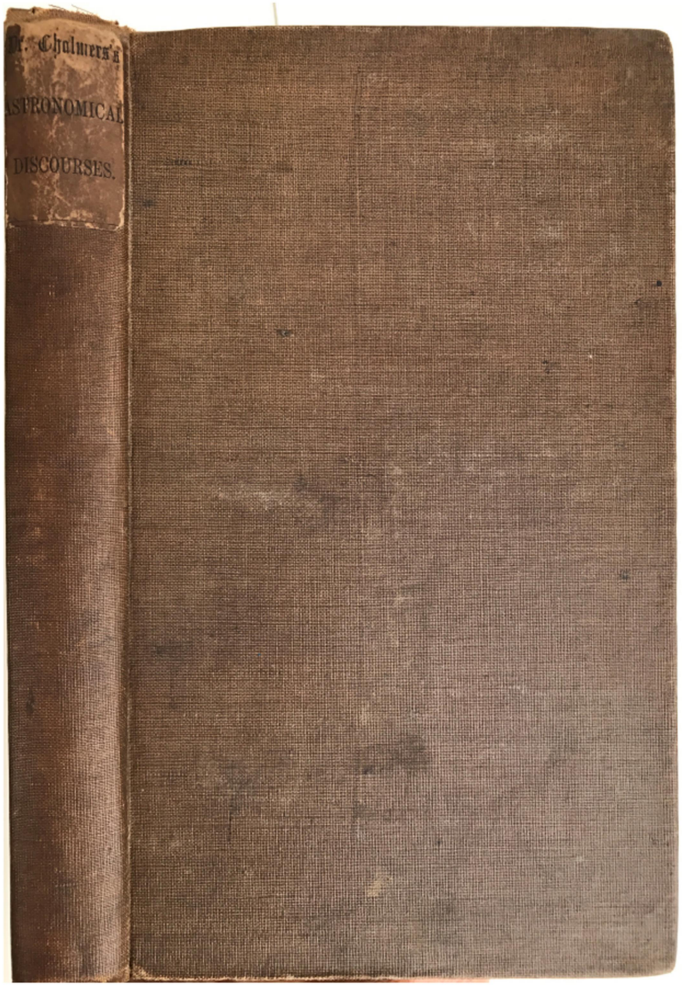
Hartley rates this as equal to Spitta, giving it the number 3 position (of 12) of his favorite microscopy books: “E. M. Nelson, whose uncompromising views dominated the late Victorian period. He had a private line to God, but is the only former President of the Royal Microscopical Society expelled for his views on the Abbe theory: he was the only one who understood it, and he wrote the first intelligible account of it. This book is an absolute necessity for all with more than a superficial interest in the optics of microscopy. It combines a mechanical history of the instrument in its most

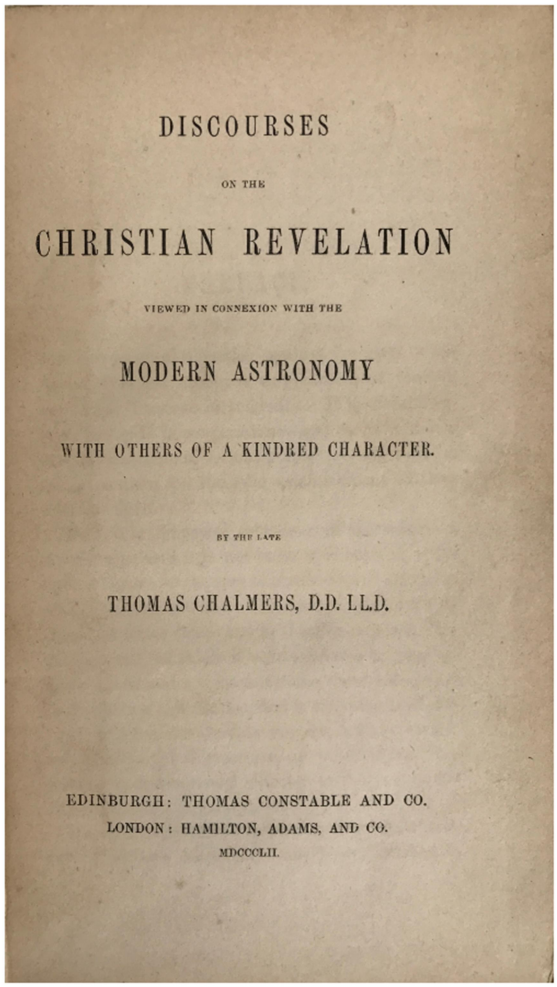
important period, with an analysis of the resolution of diatoms. Histological subjects did not interest the microscopical cognoscenti: diatoms provided quite enough interest by themselves." – Gilbert Hartley," A dozen favourite books on microscopy", *Quekett Journal of Microscopy*, 2005, 40, 39–40.



Brian Bracegirdle also favors this work, no. 5 out of 12 selections: 'Fifth in date order is Dallinger's revision of Carpenter's great work. This is a massive double volume, on the microscope and on its revelations. I have several editions, but the eighth and final one of 1901 is the most useful, with all its 1181 pages! It is in effect a summary of what was available and what was discovered in the golden days of the light microscope, at the end of its metamorphosis from gentleman's must-have into a serious scientific instrument –

in fact, into the serious scientific instrument. It contains a clear and full statement of Abbe's definitive views on the mechanism of image formation in the microscope. It is remarkable that this was contributed anonymously by E M Nelson who was barely mentioned by Dallinger; it has been said that Nelson's only thanks for his monumental contribution was a copy of the book! It is also significant that such a seminal book should have been written first by a man who was a university administrator, and revised after his death by a clerk in holy orders. It begins with the theory of the microscope, progresses onto a view of its history and development, and then considers its accessories before going on to details of its optical parts. Sections on manipulation and specimen mounting follow, all this taking the first 529 pages [or a first volume]. The rest is given over to accounts of the various natural groups of animals and plants, before shorter accounts of geological work and crystals. It is comprehensive, it is readable, it has 22 excellent plates and almost 900 wood engravings. It is a reference book which all serious workers with the microscope will have used, and which many will have bought as a copy became available – nowadays at a price, it must be said. I wouldn't be without my editions." – *Quekett Journal of Microscopy*, 2004, 39, pp. 655–659.




DISCOURSES

ON THE

CHRISTIAN REVELATION

VIEWED IN CONNEXION WITH THE

MODERN ASTRONOMY

WITH OTHERS OF A KINDRED CHARACTER.

BY THE LATE

THOMAS CHALMERS, D.D. LL.D.

EDINBURGH: THOMAS CONSTABLE AND CO.
LONDON: HAMILTON, ADAMS, AND CO.
MDCCCLII.

42. **CHALMERS, Thomas**. *Discourses on the Christian Revelation viewed in connexion with the Modern Astronomy with others of a kindred character*. Edinburgh: Thomas Constable; London: Hamilton, Adams, 1852. ¶ Small 8vo. 352 pp. Original brown cloth, printed paper label; label soiled, rubbed. Ownership signature of William Ogilby, Kileatten, July 22nd, 1854. Very good.

$ 45

Provenance: William Ogilby (1808-1873), was honorary secretary of the Zoological Society of London from 1839 to 1846.

Beautiful Copy & Important Work on Optical Instruments

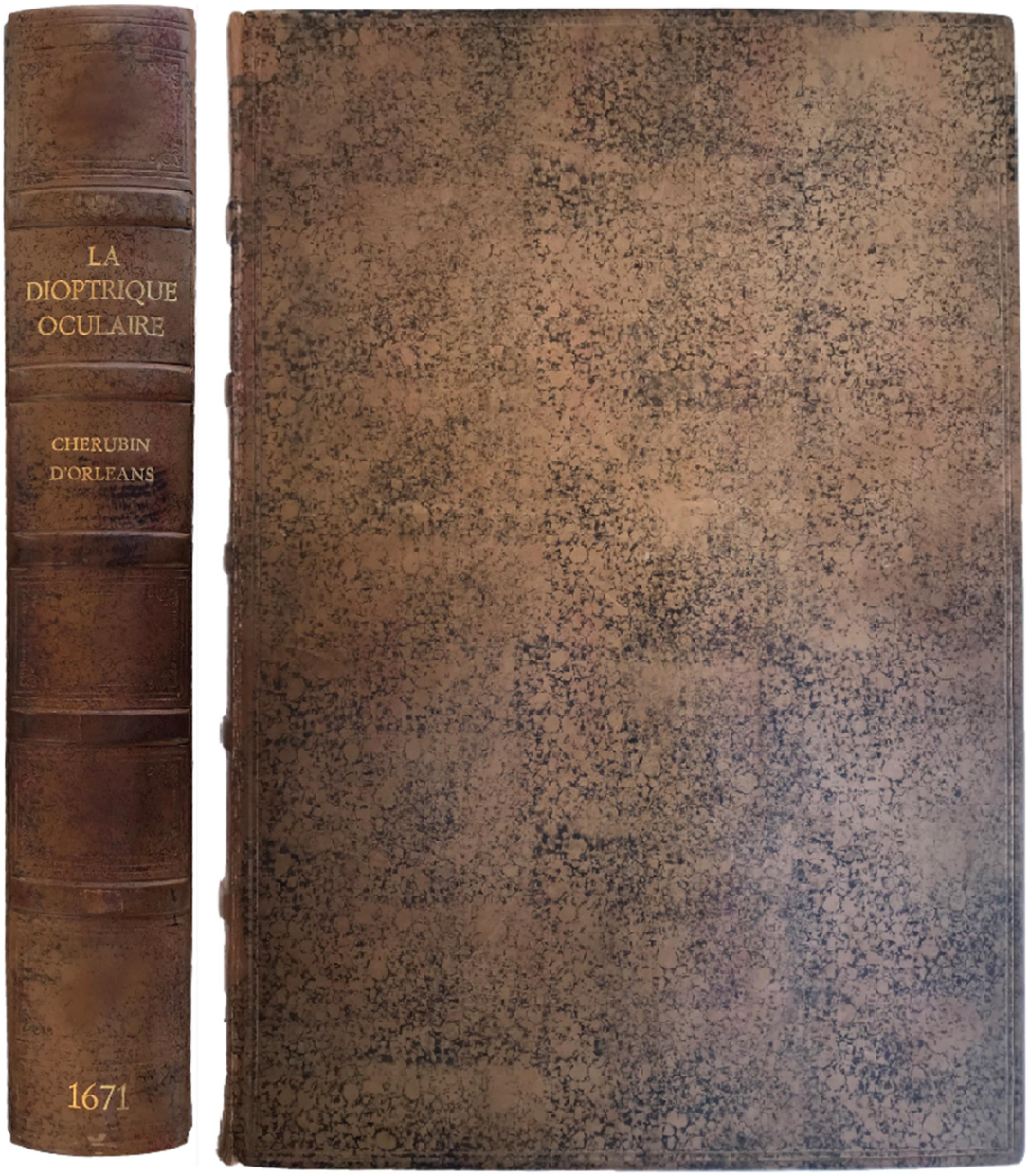
43. **CHERUBIN D'ORLEANS**. *La Dioptrique Oculaire, ou La Theorique, la Positive, et la Mecanique, de l'oculaire dioptrique en toutes ses especes*. Paris: Chez Thomas Jolly, & Simon Benard, 1671. Colophon reads: 'De l'Imprimerie de Jean Cusson, 1670. ¶ Tall 4to. [xlviii], 419, [1], [30] pp. 60 engraved plates (six double-page, some pls. signed 'L. Cossinus sculp.', incl. 3 text figs.), including the beautiful engraved allegorical

half-title (drawn by Jean le Pautre (1618-1682) and engraved by Gerard Edelinck (1640-1707), title woodcut vignette; the leaves all extended at the gutter to permit the best possible opening for this volume. Modern full blind-stamped speckled calf, gilt-spine title. Title blind embossed: Franklin Institute Library, related small rubberstamp toward title-gutter, additional similar stamps found within. Cloth slip-case. Near fine. S13173

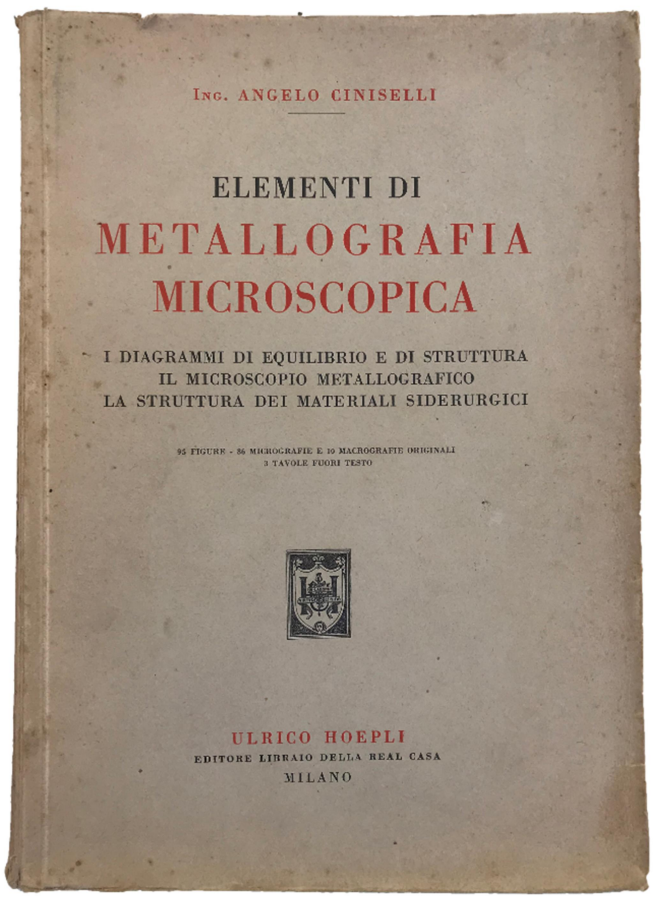
$13,500

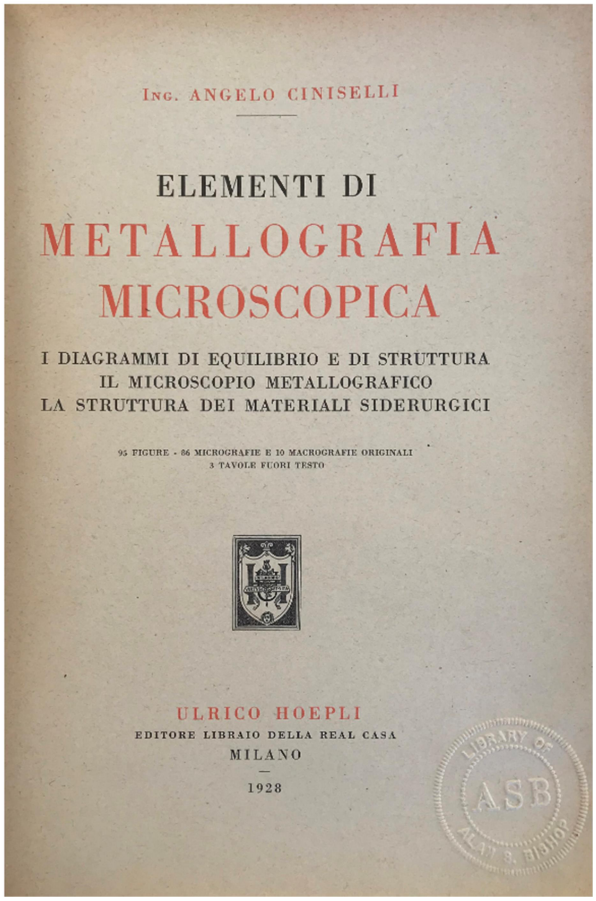
First edition of the most exhaustive treatise on optical instruments and lens making in the seventeenth century. This work deals with lenses for all types of instruments, including microscopes, telescopies, the camera obscura, as well as a study of what has been learned with different lens types. This is “the most exhaustive treatise on lens making in the seventeenth century. It is a six-hundred folio page long, comprehensive, cogently-argued treatise on telescope making. It contains an impressive amount of theoretical and practical, first-hand information on all of its facets - from explanations of the telescope's working principles, to descriptions of lens grinding and polishing, to rules for the right distances between lenses, to methods to find the right apertures, to descriptions of the shapes and articulations of the wooden parts and bolts and screws needed to properly point a telescope to the skies, to the construction of tubes, and so on and so forth.” – Albert Van Helden, et al, pp. 289-291.

[More description & pictures on request]



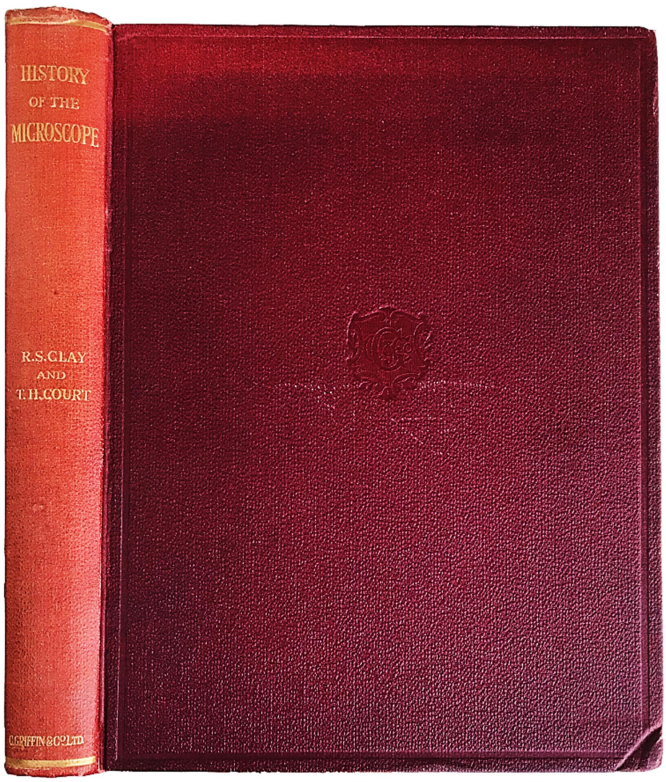
☼ Daniel M. Albert et al, *Source book of ophthalmology,* Blackwell Science, (1995), 412; Henry C. King, *History of the telescope*, (1955)*;* Krivatsy-NLM, 2427; Albert Van Helden, et al, *The origins of the telescope*, Amsterdam University Press, (2011); Ewen A. Whitaker, *Mapping and naming the moon: A History of Lunar Cartography and Nomenclature,* Cambridge University Press, 2003.

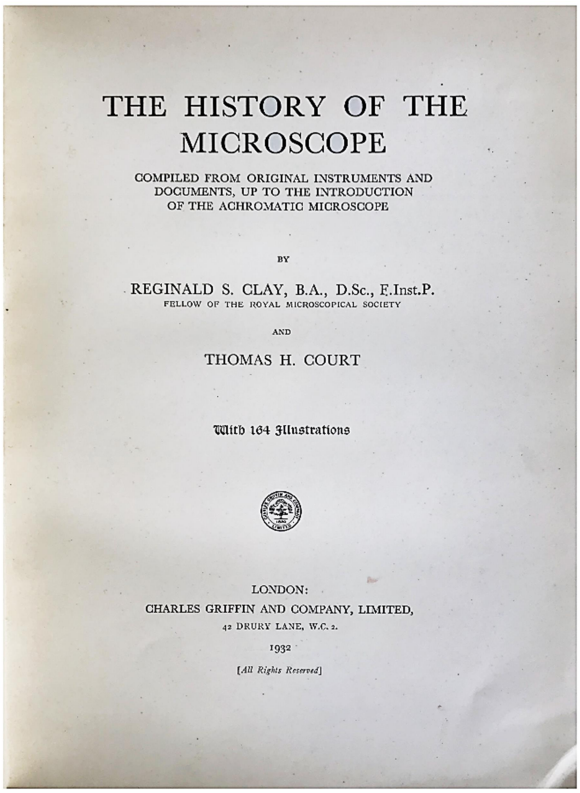




44. **CINISELLI, Angelo**. *Elementi di Metallografia Microscopica: i diagrammi di equilibrio e di struttura, il microscopio metallografico, la struttura dei materiali siderurgici.* Milano: Ulrico Hoepli, 1928. ¶ 8vo. xvi, 295 pp. 27 plates of macro & micrographic photos, 3 folding diagrams. Original red & black printed wrappers; spine rubbed, some evidence of spotting. Ownership embossed stamp on title of Alan S. Bishop. Very good. Scarce. Important study of the metallography of steel and iron, as examined using the microscope. S13071

$30





THE HISTORY OF THE MICROSCOPE

COMPILED FROM ORIGINAL INSTRUMENTS AND DOCUMENTS, UP TO THE INTRODUCTION OF THE ACHROMATIC MICROSCOPE

BY

REGINALD S. CLAY, B.A., D.Sc., F.Inst.P.
FELLOW OF THE ROYAL MICROSCOPICAL SOCIETY

AND

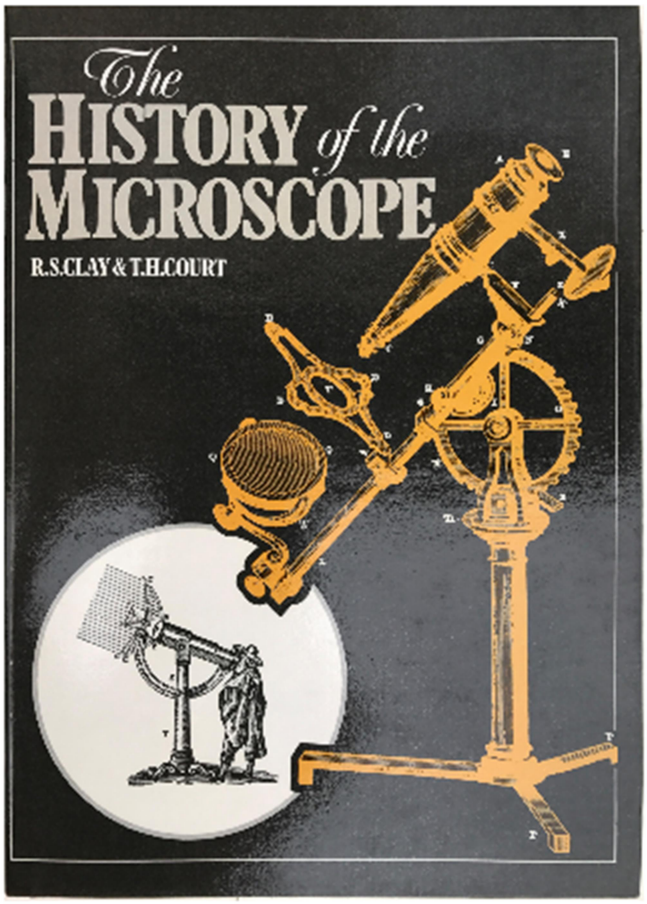
THOMAS H. COURT

With 164 Illustrations

LONDON:
CHARLES GRIFFIN AND COMPANY, LIMITED,
42 DRURY LANE, W.C. 2.
1932
[*All Rights Reserved*]

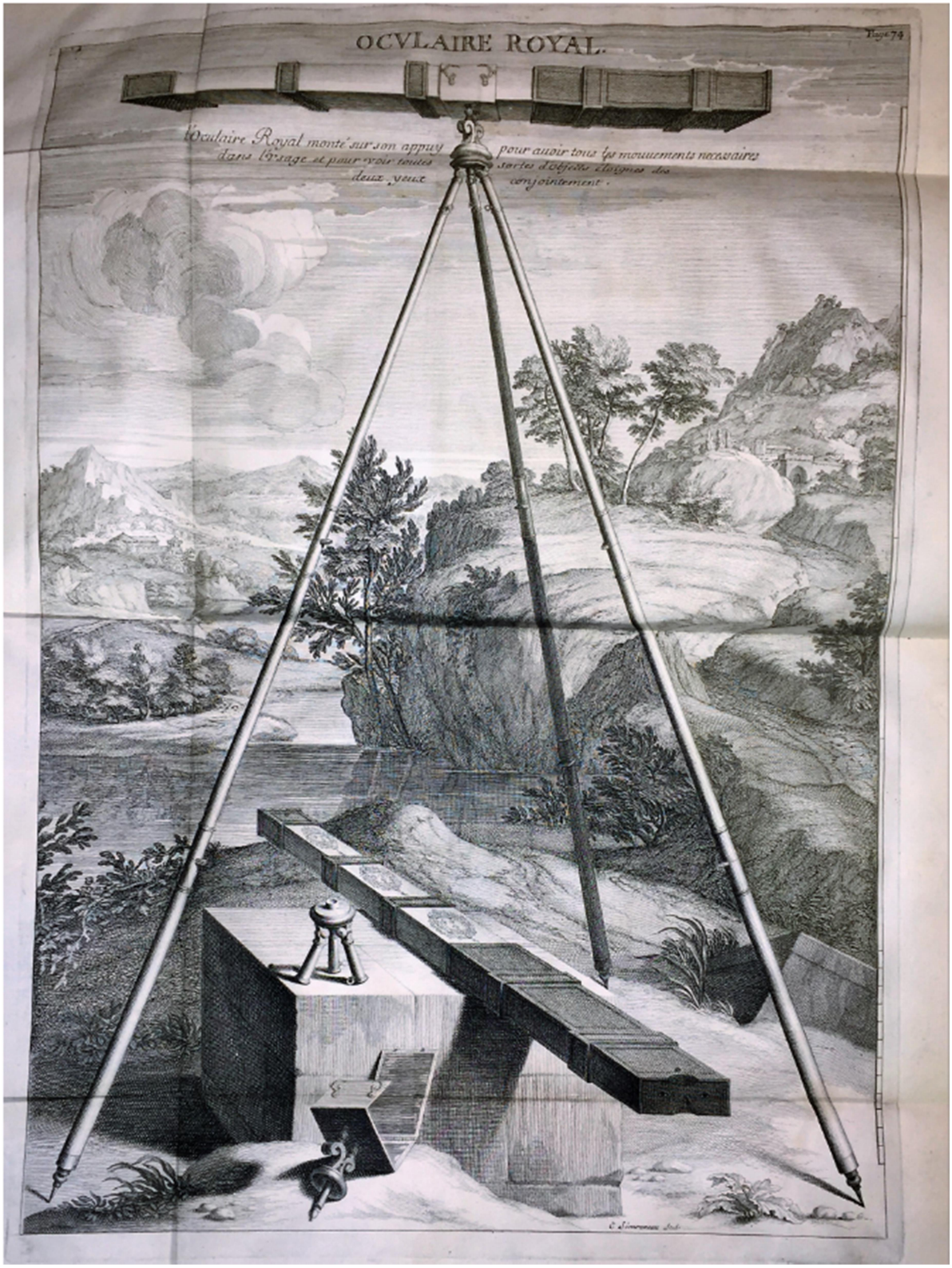
Bern Dibner's Copy

45. **CLAY, Reginald S.; Thomas H. COURT.** *The History of the Microscope; compiled from the original instruments and documents, up to the introduction of the achromatic microscope*. London: Charles Griffin, 1932. ¶ FIRST EDITION. Large 8vo. xiv, 266 pp. 164 illus., indices; cords cracked, pp. xiii + 1 inner margin torn. Blind and gilt-stamped maroon textured cloth; slightly faded, corners dented. Burndy bookplate. Good +. BL3211 $ 100

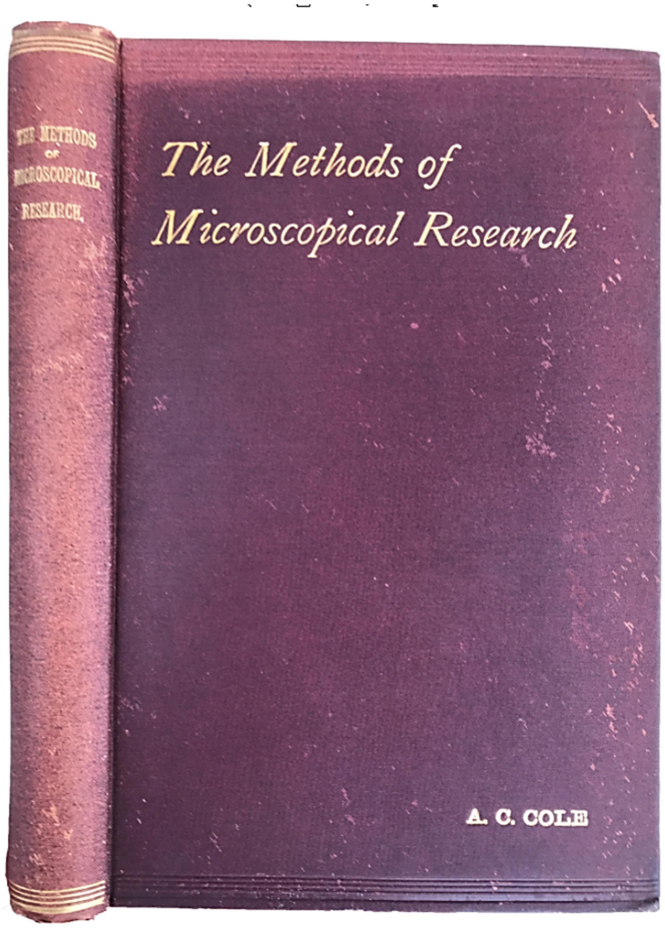


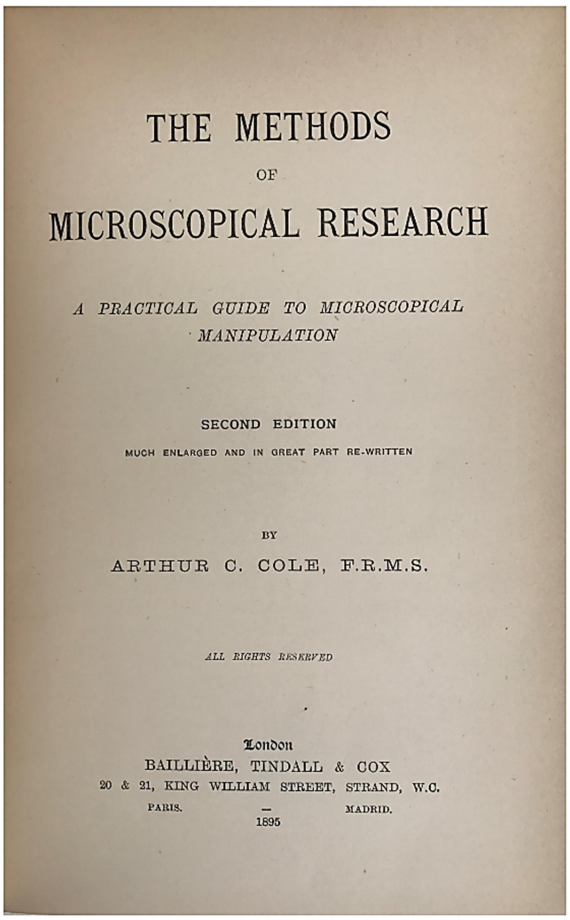
46. **CLAY, Reginald S.; Thomas H. COURT**. *The History of the Microscope. Compiled from Original Instruments and Documents, Up to the Introduction of the Achromatic Microscope*. London: Holland Press, (1975).

¶ Sm. 4to. xiv, 266 pp. Photos of microscopes, illus., list of instrument makers, index. Black gilt-stamped cloth, dust-jacket. FINE. $ 135



Chérubin d'Orleans




THE METHODS
OF
MICROSCOPICAL RESEARCH

A PRACTICAL GUIDE TO MICROSCOPICAL MANIPULATION

SECOND EDITION
MUCH ENLARGED AND IN GREAT PART RE-WRITTEN

BY
ARTHUR C. COLE, F.R.M.S.

ALL RIGHTS RESERVED

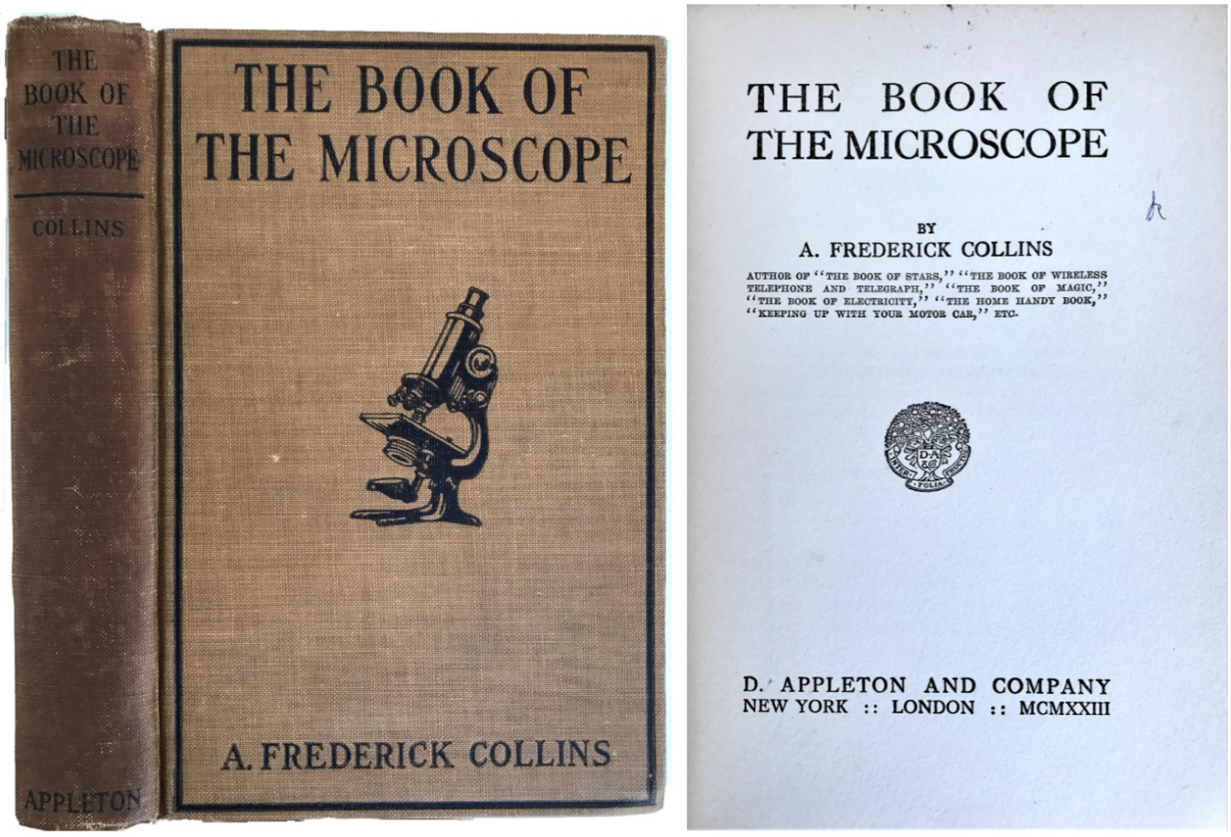
London
BAILLIÈRE, TINDALL & COX
20 & 21, KING WILLIAM STREET, STRAND, W.C.
PARIS. — MADRID.
1895

47. **COLE, Arthur C**. (1821-1900). *The Methods of Microscopical Research; a practical guide to microscopical manipulation.* London: Baillière, Tindall, 1895. ¶ 8vo. viii, 207, 41, [1] pp. Figs., index, ads. Maroon blind and gilt-stamped cloth; cover a bit freckled. Very good.

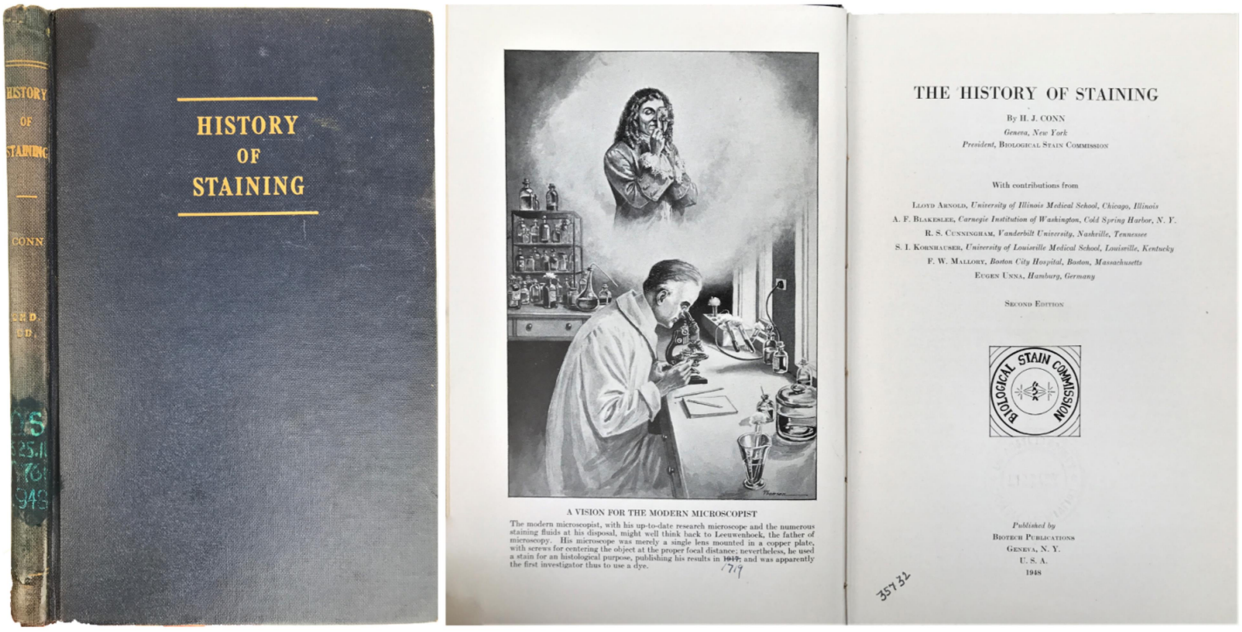
$ 45

Second edition, much enlarged. In the 19th century Arthur C. Cole & Son, Liverpool and London, were manufacturers dealing as "Microscopic Specialists" – offering "pathological and physiological preparations", being histology and pathology slide sets. They appear "to have been the first to offer them in sets." – Thomas L. Lentz, "Lentz Microscopy and Histology Collection," Peabody Museum of Natural History at Yale University. Yale University School of Medicine [2017].

CONTENTS of this book: The microscope.--The human eye, by George E. Davis.--The preparation of animal tissues.--How to preserve botanical specimens.--Stains and staining.--Mounting.--On microscopical drawing and painting --On photo-micrography.



48. **COLLINS, A. Frederick**. *The Book of the Microscope*. New York: D. Appleton, 1923. ¶ 8vo. xv, [1], 245, [2] pp. 71 figures, index, ads. Original tan dark brown-stamped cloth; minor wear to extremities. Very good. $ 22

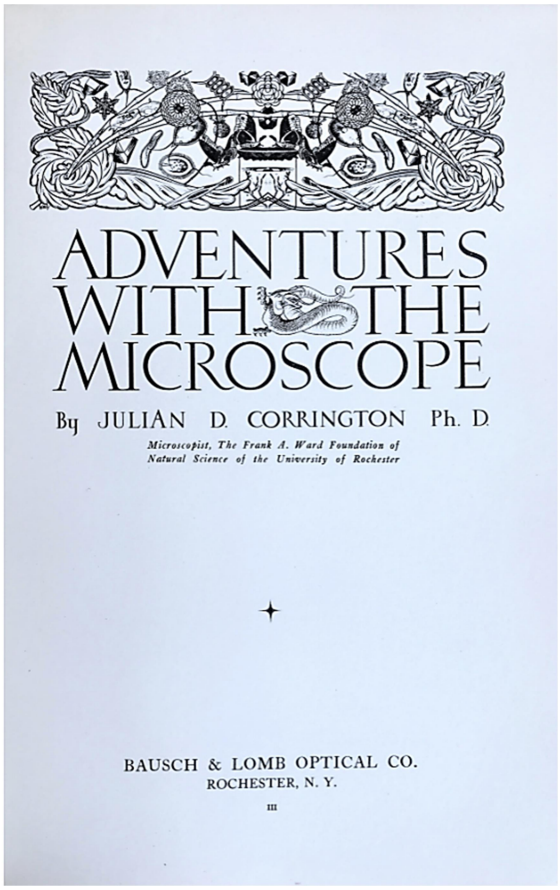


49. **CONN, H. J.** *The History of Staining. Second edition*. Geneva, NY: Biotech, 1948. ¶ 8vo. 143 pp. Portraits, index. Original gilt-stamped navy blue cloth. Ex-library copy with white call nos. on spine [painted over], spine ends mended, embossed title. Good. Scarce.

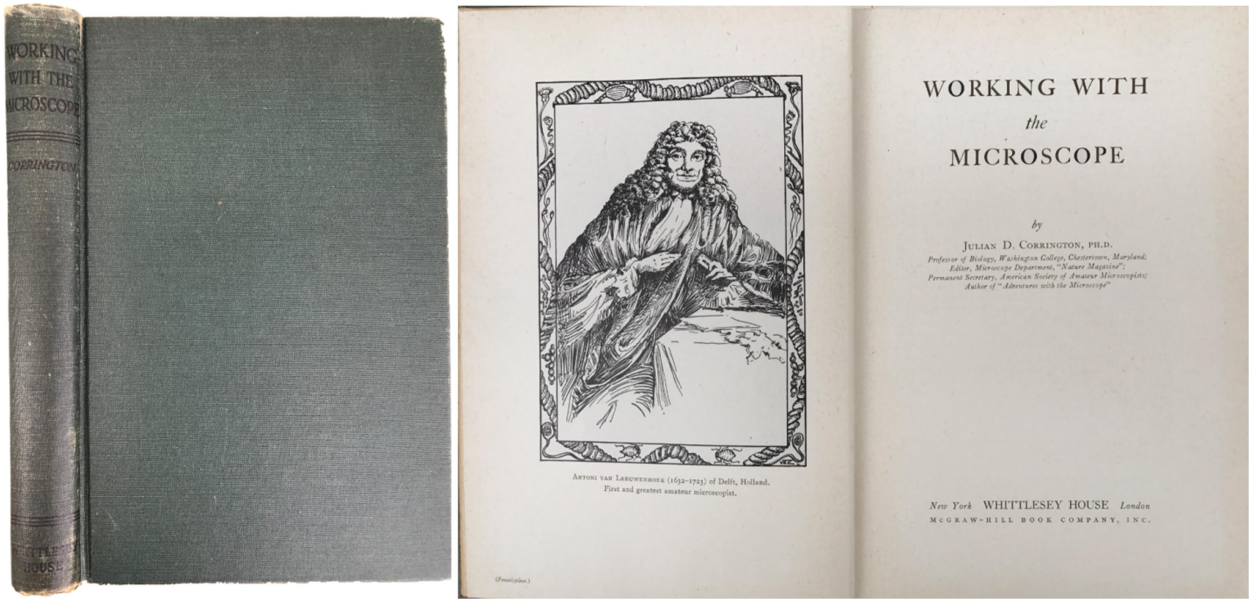
$ 35

With contributions from: Lloyd Arnold, A. F. Blakeslee, R. S. Cunningham, S. I. Kornhauser, F. W. Mallory, Eugene Unna.

50. **COOKE, M. C. (Mordecai Cubitt)** (1825-1914). *Rust, Smut, Mildew, & Mould. An introduction to the study of Microscopic Fungi. Sixth edition, revised and enlarged. Illustrated ...* London: W. H. Ellen, 1902. ¶ Small 8vo. 262, [2] pp. Illustrated with 269 coloured figures by J. E. Sowerby, index. Original brown black- and gilt-stamped cloth. Ownership signature of "...[?] Pauling, 1948, from GBM". [not Linus Pauling!]. Very good. $ 25



51. **CORRINGTON, Julian D.** (**Dana**) (1891-1963). *Adventures with the Microscope*. Rochester: Bausch & Lomb, (1934). ¶ 8vo. ix, 455 pp. 352 figures, index. Brown cloth. Very good. $ 25



52. **CORRINGTON, Julian D**. (**Dana**) (1891-1963). *Working With the Microscope*. New York: Whittlesey House, 1941. ¶ Third printing. 8vo. xi, [1], 418 pp. Frontispiece, 121 figures, index. Dark black-stamped cloth; rubbed. Very good.

$ 6

“Julian D. Corrington was a professor of zoology at the University of Miami and served as Chairman of the Zoology Department. He taught zoology and botany from 1926 to 67, and also held the university's first courses in marine zoology and marine botany during the 1930's. Corrington wrote numerous articles and books on biology and the microscope. His column, "Under the Microscope" appeared in Nature Magazine. Leisure and Modern Mechanix magazines also published a number of Corrington's articles on microscopy.” – William E. Brown, Jr., “Julian D. Corrington papers, 1917-1963”, University of Miami Special Collections.

A Typical Modern Microscope.—Made by W. Watson and Sons, Ltd., to the Specification of the late Dr. Henri Van Heurck, Antwerp, for Photo-Micrographic and High-Power Work.

MODERN MICROSCOPY

A Handbook for Beginners and Students

BY

M. I. CROSS

AND

MARTIN J. COLE

LECTURER IN HISTOLOGY AT COOKE'S SCHOOL OF ANATOMY

FOURTH EDITION

REVISED AND ENLARGED

WITH CHAPTERS ON SPECIAL SUBJECTS BY VARIOUS WRITERS

MENS SANA IN CORPORE SANO

LONDON

BAILLIÈRE, TINDALL AND COX

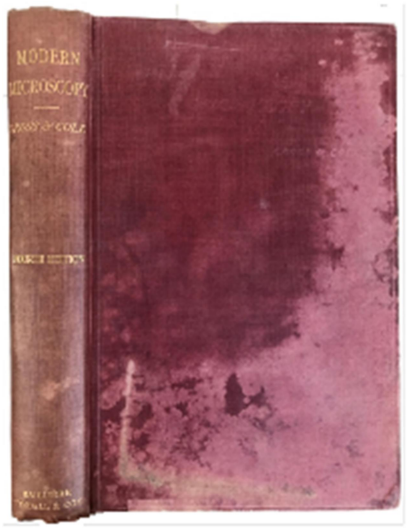
8, HENRIETTA STREET, COVENT GARDEN

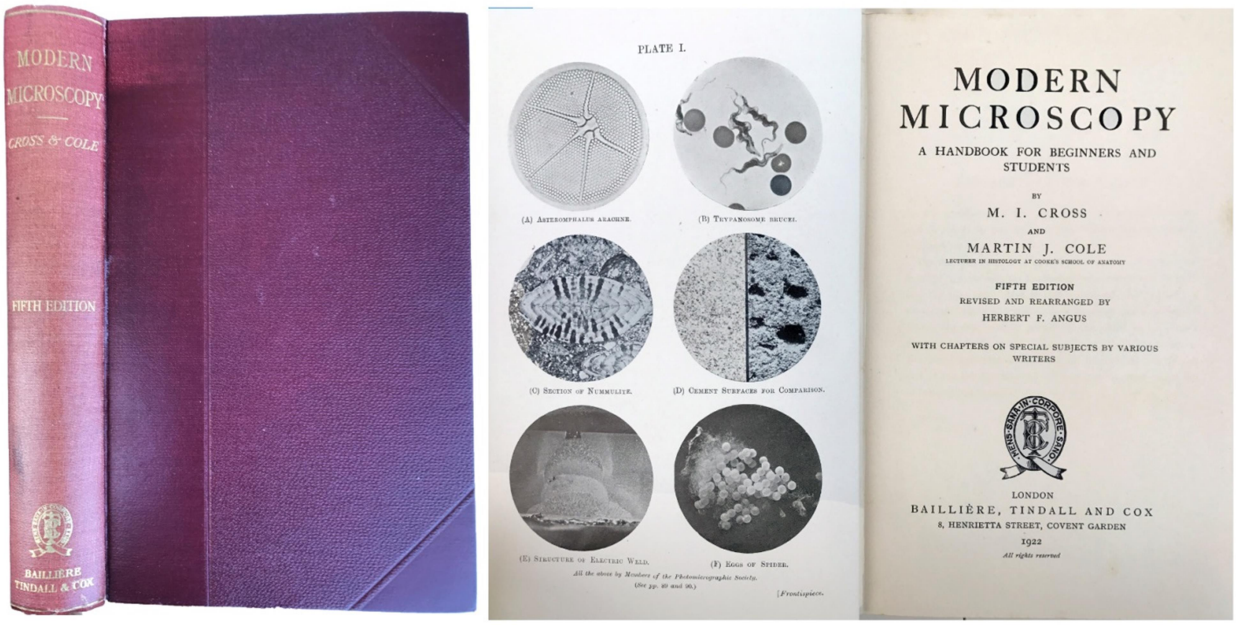
1912

[All rights reserved]

53. **CROSS, M. I.; Martin J. COLE**. *Modern microscopy; a handbook for beginners and students. Fourth edition revised and enlarged. With chapters on special subjects by various writers.* London: Baillière, Tindall and Cox, 1912. ¶ 8vo. xvii, 325, [1] pp. 6 plates (in total are 113 figures), index. Maroon blind- and gilt-stamped cloth; covers both dampstained, discolored. Good.

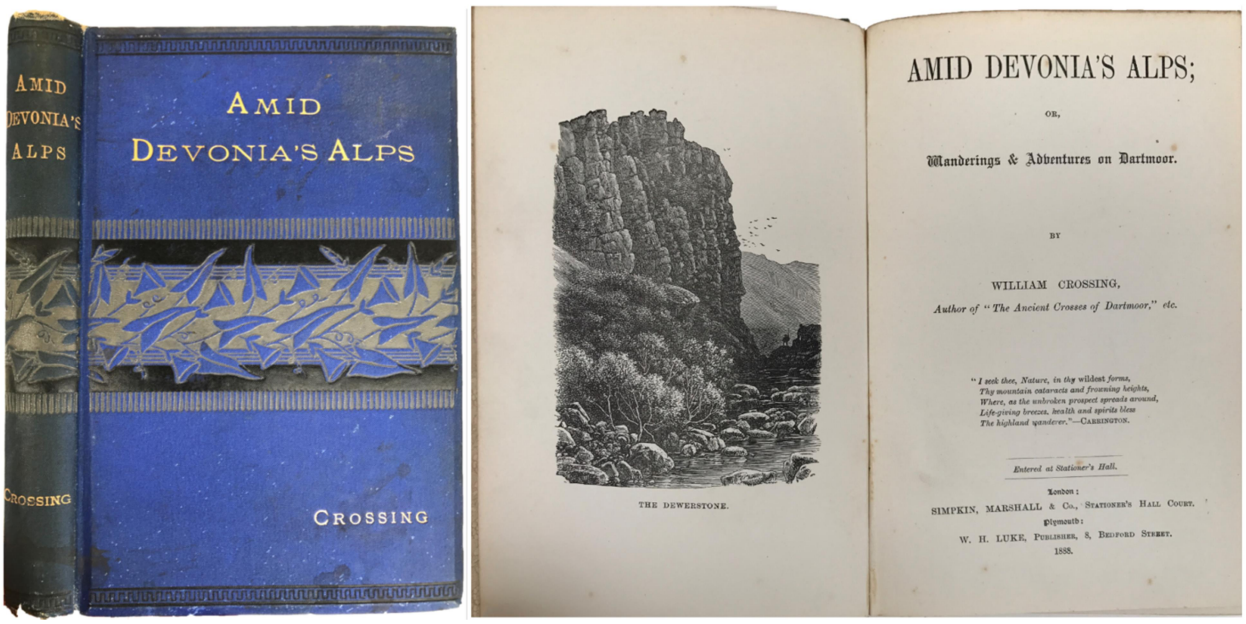
$ 10





54. **CROSS, M. I.; Martin J. COLE**. *Modern microscopy; a handbook for beginners and students. Fifth edition revised and rearranged by Herbert F. Angus. With chapters on special subjects by various writers*. London: Baillière, Tindall and Cox, 1922. ¶ 8vo. x, 315, [1] pp. 12 plates (in total are 144 figures), index. Maroon blind- and gilt-stamped cloth. Very good copy.

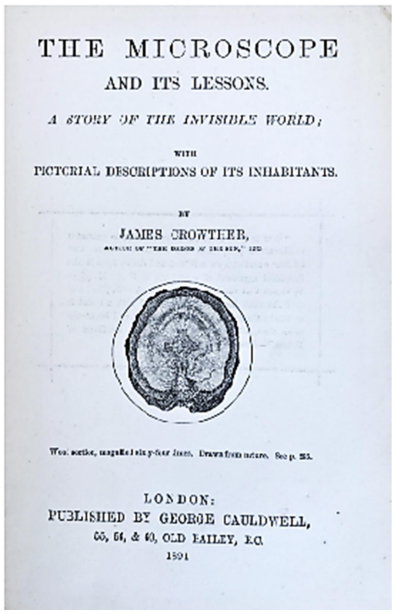
$ 10



55. **CROSSING, William** (1847-1928). *Amid Devonia's Alps; or, wanderings & adventures on Dartmoor*. London: Simpkin, Marshall & Co., Plymouth: W. H. Luke, 1888. ¶ First edition. Small 8vo. vii, [8]-231, [1], [x] pp. 5 illus., index. Original full dark blue black and gilt-stamped cloth; light wear to extremities. Very good.

$ 40

John Earle, Walking on Dartmoor: National Park and surrounding areas, describes Crossing's work on Dartmoor as being still authoritative. His is still considered one of the best authorities on Dartmoor, England, and its antiquities.


THE MICROSCOPE
AND ITS LESSONS.
A STORY OF THE INVISIBLE WORLD;
WITH
PICTORIAL DESCRIPTIONS OF ITS INHABITANTS.
BY
JAMES CROWTHER,
LONDON:
PUBLISHED BY GEORGE CAULDWELL,
63, 64, & 65, OLD BAILEY, E.C.
1891

56. **CROWTHER, James**. *The Microscope and Its Lessons. A story of the invisible world; with pictorial descriptions of its inhabitants*. London: George Cauldwell, 1891. ¶ Small 8vo. 286 pp. Numerous figures (some full-page); 2 leaves with tears to margins (repaired). Original green black- and blue- and gilt-stamped pictorial cloth, all edges gilt. Beautiful binding and surely a deluxe form (noting gilt edges). Ownership gift inscription to J. A. Saich ... 1898. Very good. $ 75

JEFF WEBER RARE BOOKS

1815 Oak Ave, Carlsbad CA 92008

Phone: 323 333 4140
weberbks@pacbell.net

MEMBER: ABAA ILAB

CURRENT CATALOGUES

THE LAST 56 WEBER RARE BOOKS CATALOGUES ARE SHOWING ON: WEBERRAREBOOKS.COM

Here are the latest issues: [all PDF form for downloading]

Catalogue 210: Richard Weiss Library on Physical & Natural Science: L

209: Various & Medical 208: Books in the History of Science: Chemistry, Geology, Mineralogy & Mining, From a Private Collection

207: Medical Classics and the Library of Arthur H. Cohen, MD: Kidney, Urology, Pathology, Bright's Disease

206: Richard Weiss Library on the Natural & Physical Science (part V: J-L)

205: Richard Weiss Library on the Natural & Physical Science (part IV)

204: Richard Weiss Library on Physical & Natural Science

203: Medicine, Drugs & Society

202: Fine Printing & History of The Book

199: 91 Fore-edge Paintings

ORDERING: TO ORDER A BOOK FROM THIS CATALOGUE please contact the firm by email, phone, or letter. Prompt attention is paid to phone calls and emails. Shipping, handling & insurance are extra. All items guaranteed as described. Inquiries welcome.