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Astronomy

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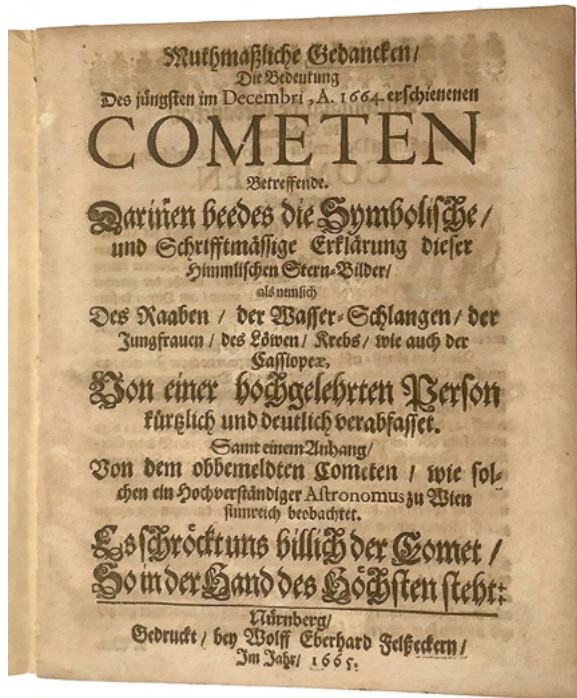
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The Seventeenth Century:



Comets: from suspicion to science.

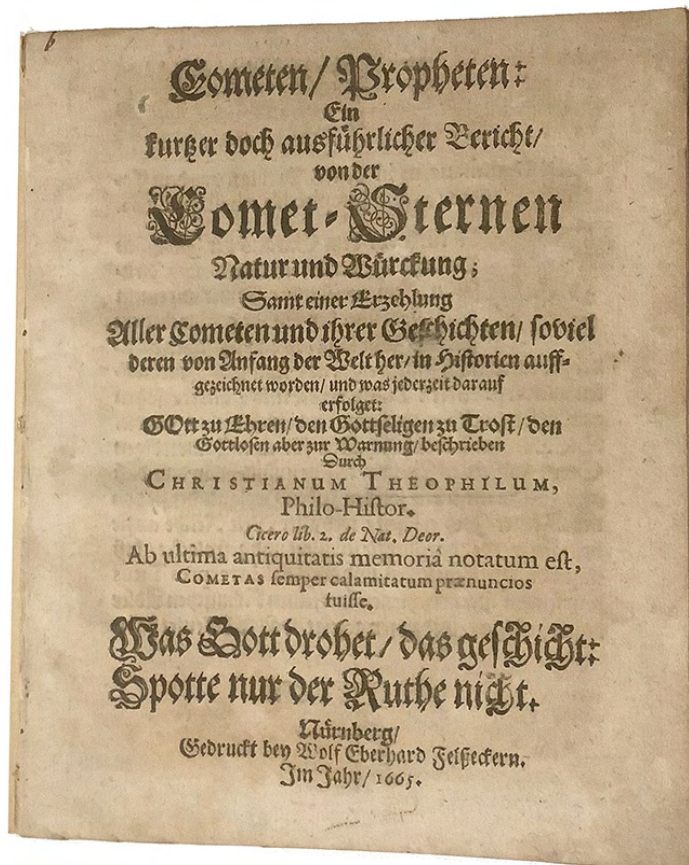
A selection of very scarce German vernacular works relating to comets, discussing early-modern concepts of the relation between nature, man, and God. Despite the efforts of some scholars, the ideas on comets remained unclear, even contradictory, during the 17th century. The cultural influence of these works ended quite abruptly at the end of the seventeenth century, as the integrated image of comets as causes (natura phenomena) and as signs (of divine phenomena) was dissolved through the emergence of distinguished debates concerning different and specific aspects related to the natural phenomena of the appearance of a comet.

These works all originate from the Fürstlich Fürstenbergische Hofbibliothek Donaueschingen. The court library of the house Fürstenberg in Donaueschingen was accrued over centuries with many important collections. The single largest stock of books, some 11,000 volumes, came to Donaueschingen from the library of the scholar Joseph Maria Christoph Freiherr von Laßberg (1770-1855) in 1855. Since the 1980s, the House Fürstenberg began selling off books from their manuscript and illustrated incunabula collections, and since October 1999, the remaining printed books of the Fürstlich Fürstenbergische Hofbibliothek in Donaueschingen, have been auctioned or otherwise sold off on the antiquary market.

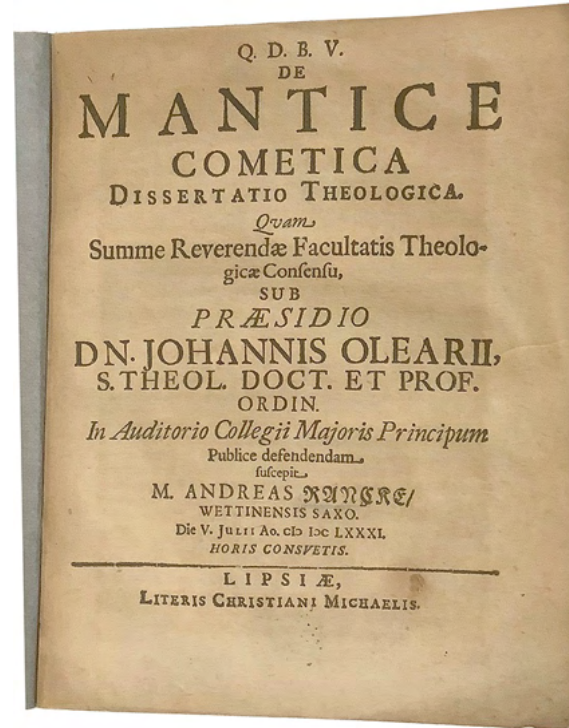
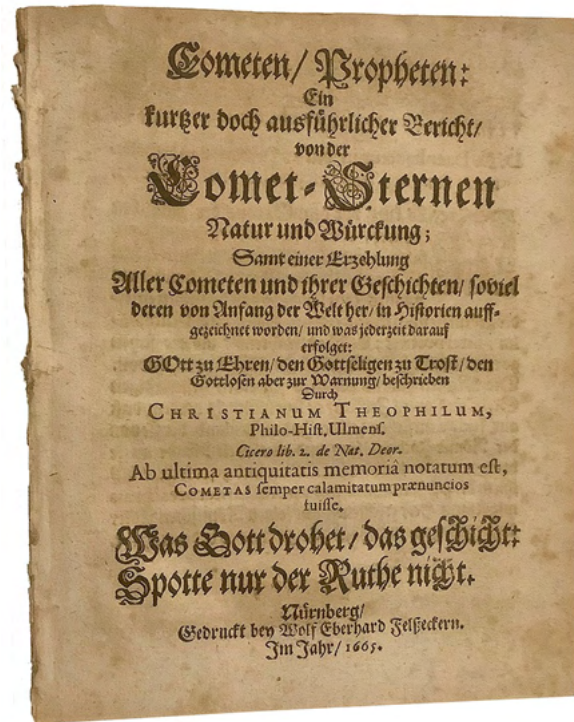
1. [COMET 1664]. Muthmaßliche Gedancken die Bedeutung des jungsten im Decembri, A. 1664 erschienenen Cometen betreffende: darinnen beedes, die symbolische und schriftmässige Erklärung dieser himmlischen Stern-Bilder. [16]pp, tailpiece ornament. Rather browned, but a good copy in later marbled wrappers. Small German stamp on the verso of the title-page and name stamp F.F. Hofbibliothek at the foot of the final page. Very scarce.

4to. Nurnberg. Wolff Eberhard Felseckern. 1665.

£450.00



2. THEOPHILUS, Christianus. Cometen, Propheten: ein kurtzer doch ausführlicher Bericht von der Comet-Sternen Natur und Würckung; samt einer Erzehlung aller Cometen und ihrer Geschichten, soviel deren von Anfang der Welt her, in Historien auffgezeichnet worden, und was jederzeit darauf erfolget: Gott zu Ehren, den Gottseligen zu Trost, den Gottlosen aber zur Warnung. [40]pp., folding plate. Some light browning, but a very good copy in later marbled wrappers. Small name stamp F.F. Hofbibliothek at the foot of the verso of the title-page. Very scarce. 4to. Nurnberg : Gedruckt bey Wolf Eberhard Felsseckern, 1665. £420.00



3. THEOPHILUS, Christianus. Cometen, Propheten: ein kurtzer doch ausführlicher Bericht von der Comet-Sternen Natur und Wurckung: samt einer Erzählung aller Cometen und ihrer Geschichten, soviel deren von Anfang der Welt her, in Historien auffgezeichnet worden, und was jederzeit darauf erfolgt: Gott zu Ehren, den Gottseligen zu Trost, den Gottlosen aber zur Warnung. [40]pp. Lacks the folding plate. Brownded, and disbound.

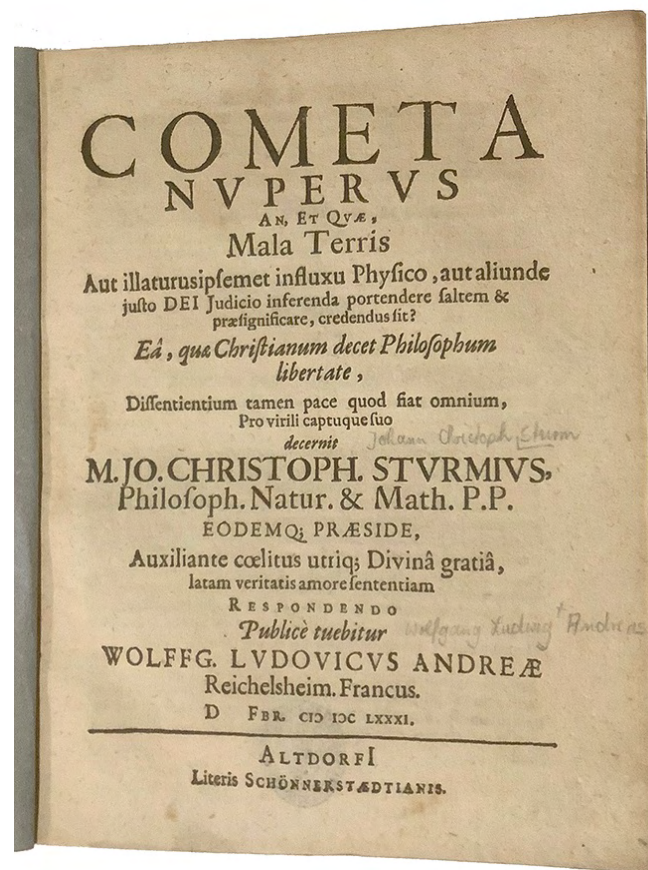
4to. Nurnberg : Gedruckt bey Wolf Eberhard Felsseckern, 1665.

£120.00

4. OLEARIIUS, Johannes. De Mantice Cometica Dissertatio Theologica. 37 unnumbered leaves, possibly lacking a preliminary or final blank. Light age toning. Small German stamp on the verso of the title-page and name stamp F.F. Hofbibliothek at the foot of the final page. Very scarce,

4to. Lipsiae, Literis Christiani Michaelis. 1681.

£450.00



5. STURM, Johann Christoph. Cometa Nuperus an, et quae, mala terris aut illaturus ipsimet influxu physico, aut aliunde justo Dei judicio inferenda portendere saltem & praesignificare, credendus sit? [2], 32pp. A very good copy in later plain wrappers. Name stamp F.F. Hofbibliothek at the foot of the final page.

4to. Altdorfi: Literis Schonnerstaedtianis. 1681.

£500.00

COMETARUM
NATURA
MOTUS ET ORIGO

Secundum duas hodie Celebriores
JOH. HEVELII & P. PETITI
Celeberrimorum Mathematicorum

Hypotheses
ita declarata,
ut non solum novissimi illius nostri,
Sed insigniorum aliorum quorumque,

quos anni 1677, 1665, 1664, 1661, 1652, 1647,
1618, 1607, 1590, 1585, 1580, 1577. & superiores
alii viderunt,

*et historiae naturalis ratio grata quadam brevitate
exinde dignosci queat.*

Hæc eadem verò

PRÆSIDE

M. JOH. CHRISTOPHORO STURMIO,
MATHEM. ET PHYS. P. P.

Respondendo
Publicè tuebitur

CHRISTOPHORUS FÜRER,
ab HAIMENDORF & WOLCKERSDORF.

d. 7. Maji 1701 LXXXI.

ALTDORFI

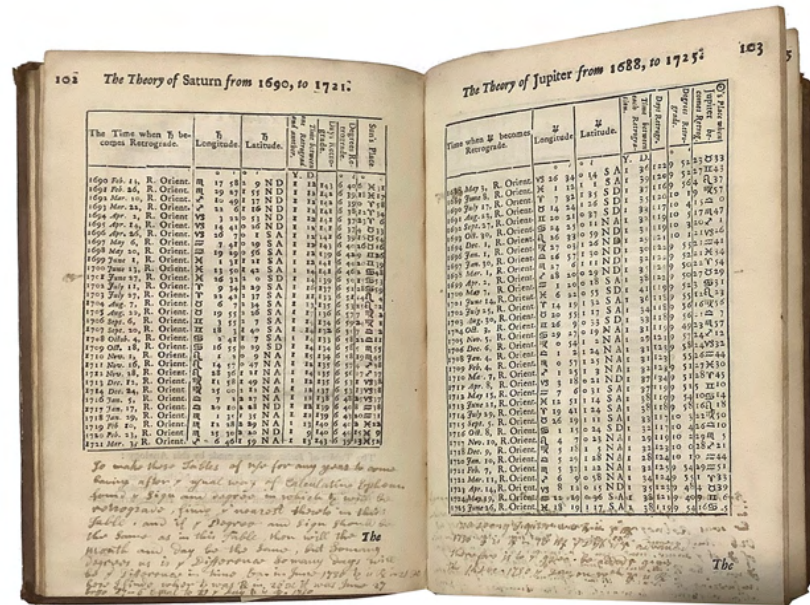
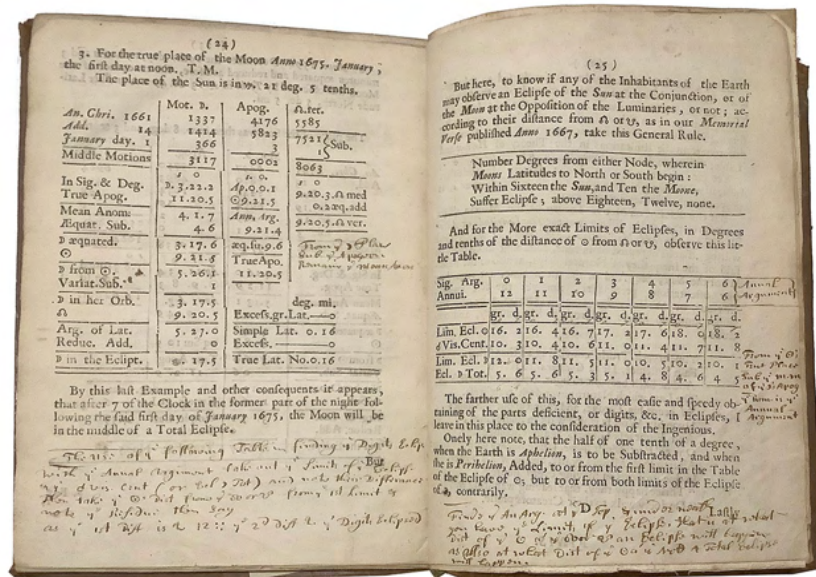
Typis Johannis Henrici Schönnerstaedt.

6. STURM, Johann Christoph. *Cometarum Natura Motus Et Origo: Secundum duas hodie Celebriores Joh. Hevelii & P. Petiti Celeberrimorum Mathematicorum Hypotheses ita declarata, ut non solum novissimi illius nostri, Sed insigniorum aliorum quorumque, quos anni 1677, 1665, 1664, 1661, 1652, 1647, 1618, 1607, 1590, 1585, 1580, 1577. & superiores alii viderunt, & historia & naturalis ratio grata quadam brevitate exinde dignosci queat.* [4], 51, [1]p. A very good clean copy in recent sugar paper wrappers. Small German stamp on the verso of the title-page and name stamp F.F. Hofbibliothek at the foot of the final page. Very scarce.

4to. Altdorfi[i]: Typis Johannis Henrici Schönnerstaedt. 1681. £650.00

~ Johann Christoph Sturm (1635–1703) was an eclectic German philosopher, professor at the University of Altdorf, one of the first experimental physicists, a mathematician, astronomer, calendariographer, and Lutheran priest. He was a correspondent of Robert Boyle (1627–1691) and Gottfried Leibniz (1646–1716), among others. Sturm's thought mirrors the complex interplay between debates in metaphysics, natural philosophy, and theology that characterize the second half of the seventeenth century.

The Eighteenth Century:



With manuscript notes by the 18th century astronomer and almanac writer Tycho Wing.

7. LEADBETTER, Charles. Astronomy: or, the true system of the planets demonstrated. Wherein are shewn by instrument, their anomalies, heliocentrick and geocentrick places both in longitude and latitude; your Aphelions, Perihelions, Retrogradations and Elongations, Parallaxes and Distances from the Sun and Earth: With the Method of Computing the Times when Venus and Mercury may be seen in the Sun's Disk. Also the Moon's Phases, and Eclipses of the Luminaries, for any time past, present, or to come. With proper Cuts to each Planet: By which any Person may in a few Hours, and with great Ease, attain to a perfect Knowledge of the Planetary, or Solar System. Likewise The Places of the Heavenly Bodies and Motion of the Earth are not only shewn, but plainly and succinctly demonstrated to the Meanest Capacity, by Short and Easie Rules and New Astronomical Tables. With the Places of 130 Principal Fixed Stars, 33 of which lye in the Moon's Way: Design'd as a Help towards discovering the Longitude at Sea. To which is prefix'd, an alphabetical catalogue of as many terms in astronomy as are most Useful, and necessary to be understood. A Work entirely New, and in a Method hitherto unattempted. [4], viii, [4], 120pp., one folding plate only (torn without loss), (Plate 10 of ten). 8vo. printed for J. Wilcox in Little Britain. 1727.

bound with...

[STREETE, Thomas]. The Description & Use of the Planetary Systeme, together with easie tables. By which the apparent motions of the heavens may be readily found for ever. 26, [4]pp. 8vo. printed by J. Darby, for Robert Morden at the sign of the Atlas in Cornhil, and William Berry at the sign of the Globe betwixt York House and the New Exchange in the Strand. c1675.

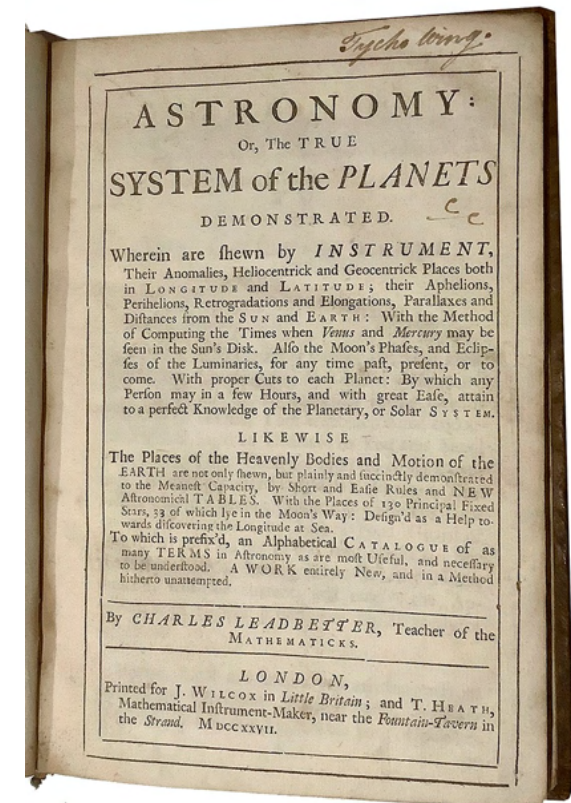
A reissue of Wing S5955 with the addition of "Post-script. For the more speedy use of the planetary and lunar systemes." which is dated and signed: 2. Junii, 1675. Thomas Streete.

Two titles bound in full contemporary panelled calf, and with no evidence of the other plates being removed from the first title. Joints cracked, and some wear to the corners. Title-page to the second work is repaired at the foot of the verso, with slight loss to the ruled border, and there is a hole to a blank section. Some old waterstaining to the two final leaves. In a modern cloth book box.

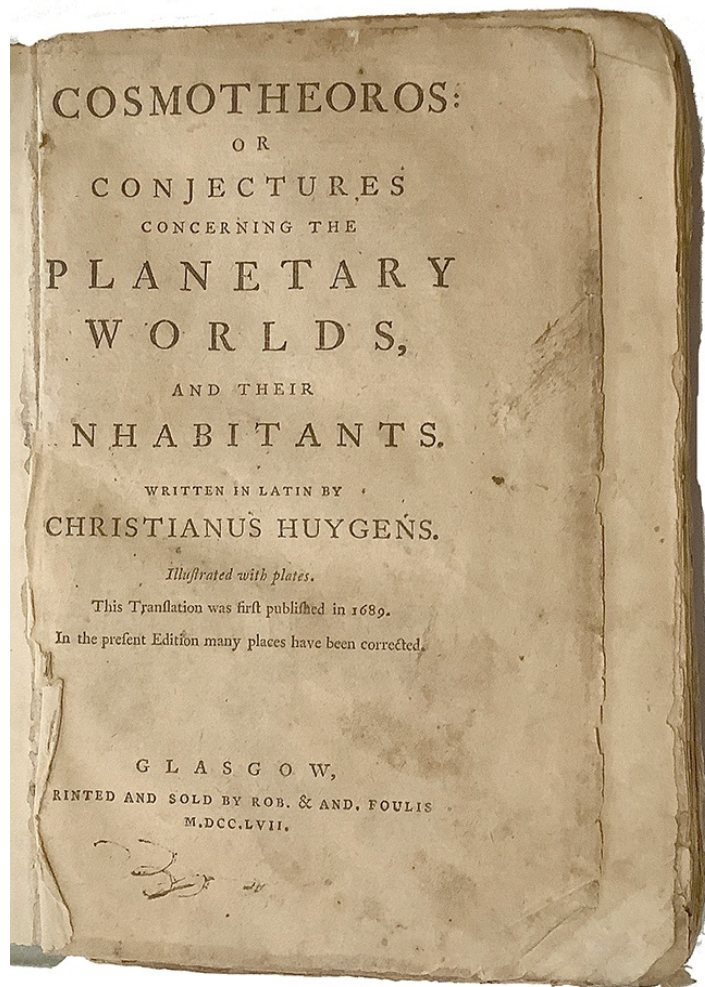
~ With the ownership name of Tycho Wing, 1727 on a preliminary blank, and his marginal notes in the first work. Manuscript notes in the second work appear to be in an earlier hand, possibly by Tycho's father John Wing?

Tycho Wing, (1696-1750), was an astronomer, philosopher, teacher of mathematics and music, as well as serving as coroner of Rutland (1727 – 1742). He practised as a surveyor and boarded pupils to whom he taught mathematics, surveying and navigation. He continued his father's almanac, initially under the name John Wing until 1739, though Tycho signed the prefaces; certainly by 1741 they appeared under Tycho Wing's own name. He was a friend of the antiquary Rev Dr William Stukeley. His grandfather Vincent Wing (1619-1668) entered into a polemical dispute with Thomas Streete in the 1660's; each pointing out errors in the other's publications.

A most interesting volume with a distinguished provenance. There are 15 pages with manuscript notes or calculations in the first work, and 8 pages with manuscript notes in the second work.

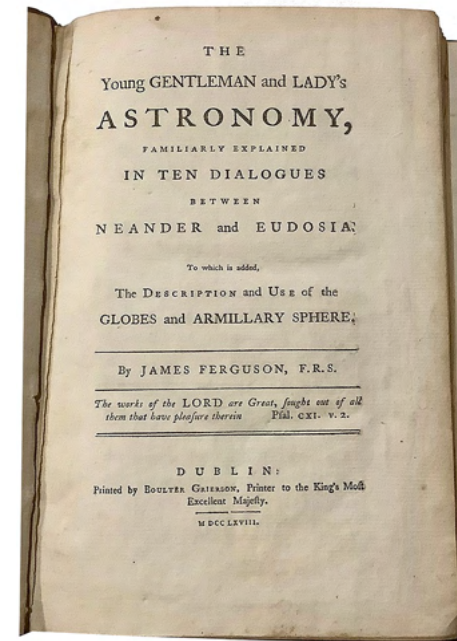
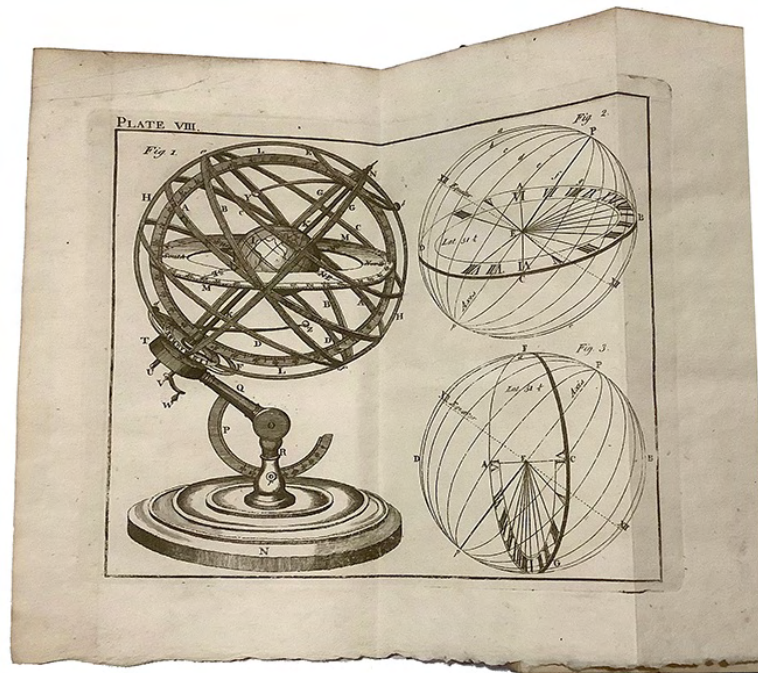


£950.00



8. HUYGENS, Christianus. *Cosmotheoros: Or Conjectures Concerning the Planetary Worlds, and Their Inhabitants.* Written in Latin by Christianus Huygens. Illustrated with Plates. This translation was first published in 1689. In the present edition many places have been corrected. [4], 219, [1]p., 3 *folding plates.* *Lacks the other two plates.* An uncut copy in worn original boards, backstrip missing, covers scuffed and worn at the corners. Title-page a little loose, and some dustiness. Scarce. Gaskell 337.
small 8vo. Glasgow, printed and sold by Rob. & And. Foulis. 1757. £40.00

~ During the last years of his life, Christiaan Huygens worked on a “philosophical treatise”, addressed to his brother Constantijn, which contained his speculations on the construction of the universe and the habitability of the planets as deduced from his own observations and those of other astronomers of his time.



9. FERGUSON, James. The Young Gentleman and Lady's Astronomy, familiarly Explained in Ten Dialogues Between Neander and Eudosia. To which is added, The Description and Use of the Globes and Armillary Sphere. [4], 146, 91, [1]p., 8 folding plates. Full contemporary calf. raised bands. Spine rubbed and lacks the label. End-paper and paste-downs a little browned, and some dustiness to the edge of several plates. 8vo. Dublin: printed by Boulter Grierson. 1768. £275.00

~ In an advertisement to a forthcoming lecture course in 1759, Ferguson wrote: "It gives him great pleasure to find that many Ladies form themselves into Companies, and attend his Lectures on the Globes and Orrery; and can now say with truth, that he has sufficient reason... to ridicule a notion which was never his own; namely that these things are without the sphere of Ladies capacities..." His 1768 treatise was based on lessons he gave to a young girl, and is divided into ten chapters, representing 10 conversations in which the brother explains various topics to his sister. Ferguson's model for Eudosia, the sister, was a young pupil named Anne Emlyn (1753-1801), daughter of the architect Henry Emlyn (1729-1815), of Windsor. Ref: *Women in Early British and Irish Astronomy*: Mary Brück, 2009.

the first scientific paper written by a woman to be read to the Royal Society.

10. HERSCHEL, Miss Caroline. An Account of a New Comet. In a Letter from Miss Caroline Herschel to Charles Blagden. Read. Nov. 9, 1786. Philosophical Transactions Vol. LXXVII. 6pp., *folding plate*. Disbound. 4to. 1786. £220.00

~ Originally from Hanover, William Herschel spent many years travelling round England as a musician. Caroline arrived several years later, invited over by him to pursue her own career as a concert soprano. But after a promising start, she was obliged to abandon her musical ambitions and support his new obsession with astronomy. Unsurprisingly, she took over some of the more unappealing responsibilities, such as sieving horse manure in the basement to make smooth beds for metal telescope mirrors.

In addition, Caroline was renowned in her own right for her independent discovery of several comets. Sweeping her small telescope systematically across the heavens, she searched for and found unexpected spots of light that had never been noticed before. Over a decade, she identified a total of eight comets, thus substantially boosting the previous known number of around thirty. As soon as she was sure about the first one, she sent the Secretary of the Royal Society, Charles Blagden, a characteristically modest letter. 'I venture to trouble you, 'she began timidly, 'with the following imperfect account of a Comet...'

Herschel's "imperfect account" of her discovery was the first scientific paper written by a woman to be read to the Royal Society and one of the first written by a woman to be included in the proceedings of a scientific society anywhere in the world.

Johann Heinrich Helmuths,
Herzogl. Braunschwo. Lüneburg. Superintendentens,
Predigers in der Landstadt Calvörde u.

Anleitung

zur
Kenntniß
des großen Weltbaues
für Frauenzimmer
in freundschaftlichen Briefen.



*Ich hebe mein Aug' auf, und seh
Und siehe, der Herr ist überall.
Euch, Sonnen, euch, Erden, euch, Monde der Drees.
Erfüllt, ringt um mich, seine göttliche Gegenwart*

Mit Kupfern.

Braunschweig, 1791.
in der Schulbuchhandlung.

11. HELMUTH, Johann Heinrich. Anleitung zur Kenntniss des grossen Weltbaues für Frauenzimmer in freundschaftlichen Briefen. xx, 348pp., folding plate, and title-page vignette. Original boards, red spine label. Covers rather darkened, and some light foxing. 8vo. Braunschweig: Schulbuchhandlung, 1791. £120.00

~ Johann Heinrich Helmuth was born in 1731 in the Principality of Brunswick-Wolfenbüttel. He studied theology at the University of Helmstedt and was entrusted with his first pastoral post in nearby Volkmarsdorf in 1762. At the instigation of Duke Karl Wilhelm Ferdinand, he was given the parish in Calvörde in 1786 and was appointed superintendent in 1797. In addition to his spiritual work, Helmuth devoted himself to the task of counteracting the superstition widespread among the rural population by publishing enlightening popular scientific writings.

The Nineteenth Century:

12. CHALMERS, Thomas. *A Series Of Discourses on the Christian Revelation Viewed in Connection with the Modern Astronomy*. Ninth edition. 276, [4]pp *adverts.*, *half-title*. A good copy bound in later, but not recent, cloth. Slight foxing.
8vo. Edinburgh: John Smith & Son. 1818. £40.00

~ The work was based on weekday sermons preached by Chalmers in Glasgow. His main aim was to refute the 'infidel' argument that because the earth and humanity are such insignificant parts of the universe, God - if he existed - would not care about them. However, he also addresses the 'narrow and intolerant professors' who 'take an alarm' at the idea of philosophy rather than incorporating science into their Christian preaching. Chalmers wrote from the viewpoint of an admirer of science and modern astronomy.

13. GUY, Joseph. *Guy's Elements of Astronomy Familiarly Explaining the General Phaenomena of the Heavenly Bodies and the Theory of The Tides*. xii, 170, [10]pp *index and adverts.*, *folding frontispiece*, 17 *plates*. Gilt lettered black roan. Spine worn and with vertical split, corners worn. Some foxing and browning.
12mo. Baldwin, Cradock and Joy. 1819. £30.00

IV. Notice respecting some Errors common to many Tables of Logarithms.
By CHARLES BABBAGE, Esq., Foreign Secretary of the Astronomical Society.

Read March 9, 1827.

HAVING lately printed a stereotype table of the logarithms of natural numbers, for the use of the Survey of Ireland, I observed among the errors detected in various tables during the eight readings to which it was subjected, several which appeared common to many of them. This circumstance induced me to examine some other tables at the same numbers; and I find that there are six errors which are common to almost all tables: those of VEGA, the recent impressions of CALLET and my own, are the only ones entirely exempt. The following table shows the sixth and seventh figures, and in a few cases also the eighth, ninth and tenth figures, of the logarithms in the respective tables: the erroneous figures being indicated by a bar placed above them.

24,626	38,062	57,628	57,629	63,747	67,951	Natural Numbers.
39751	13420	35875	10436	97412	58424	Vlacq, fol. Gonda 1628
39751	13420	35875	10436	97412	58424	Vlacq, fol. London 1633
39	13	35	10	97	58	E. Wingate, 12mo. London 1633
397	134	359	104	974	584	Newton, fol. London 1658
40	13	36	10	97	58	Sherwin, Svo. 1st ed. London 1726
40	13	36	10	97	58	Sherwin, Svo. 2nd ed. London 1741
40	13	36	10	97	58	Sherwin, Svo. 3rd ed. London 1742
40	13	36	10	97	58	Gardiner, 4to. London 1742
40	13	36	10	97	58	Sherwin, Svo. 4th ed. London 1761
40	13	36	10	97	58	Sherwin, Svo. 5th ed. London 1770
40	13	36	10	97	58	Gardiner, 4to. Avignon 1770
40	13	36	10	97	58	Schulze, Svo. Berlin 1778
40	13	36	10	97	58	Gardiner, 4to. Firenze 1782
39	12	36	10	97	58	Taylor, 4to. London 1792
38751	12420	35475	10836	97512	58524	Vega, fol. Leipsic 1794
40	13	36	10	97	58	Callet, Svo. Paris 1795
40	13	36	10	97	58	Delambre, Tab. Dec., 4to. Paris 1801
39	12	36	10	97	58	Hutton, Svo. 4th ed. London 1804
39	12	36	10	97	58	Hutton, Svo. 5th ed. London 1811
39	12	35	11	98	59	Vega, Svo. 5th ed. Leipsic 1820
39	12	36	10	97	58	Hutton, Svo. 6th ed. London 1822
39	12	35	11	98	59	Babbage, Svo. London 1826

ASTRON. SOC. OF LOND. VOL. III.

K

Charles Babbage

14. ASTRONOMICAL SOCIETY. Memoirs of the Astronomical Society of London. Vol III. Part I. 142, [6]pp, A very good copy in printed wrappers.

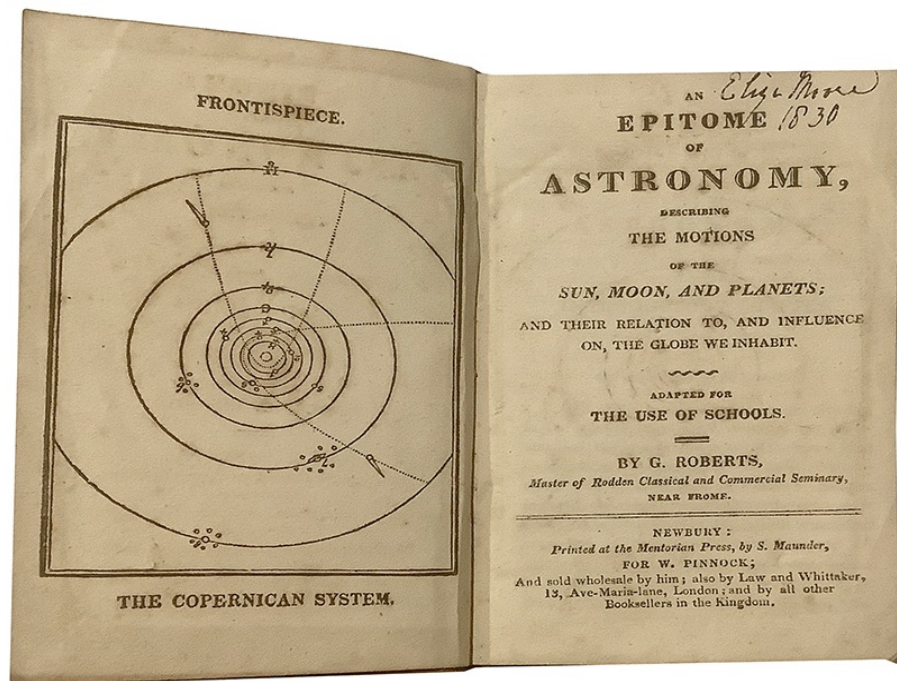
4to. Baldwin, Cradock and Joy. 1827. £150.00

~ It includes "Notice respecting some Errors common to many tables of Logarithms. By Charles Babbage." "An important paper in which Babbage points out that almost all logarithmic tables had been copied from earlier versions and consequently contained the same errors. He points out that the source of six common errors was the table produced by Vlacq in 1628. He also notes the same errors were found in a set of tables, in the library of the Royal Society, produced in China." - Tomash & Williams

15. TIME'S TELESCOPE for 1827... [with] Astronomical Occurrences in every Month. [16], 400pp., adverts., frontispiece. An uncut copy in worn original boards, very rubbed and with loss to the spine. Clean internally.

8vo. Sherwood, Gilbert and Piper. 1827.

£25.00



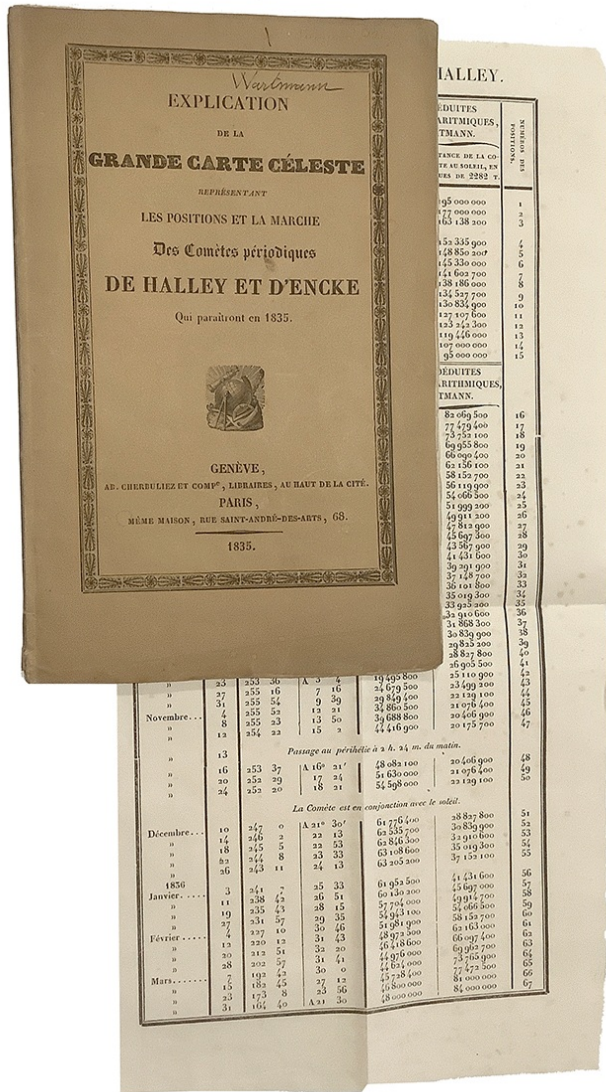
16. ROBERTS, G. An Epitome of Astronomy, describing the motions of the sun, moon, and planets. 216, [8]pp adverts., frontispiece, text diagrams. A good copy bound in contemporary unlettered sheep. Slight wear to the head of the spine, small crack to lower inch of the front joint, and lower corner of final advert leaf torn with no loss of text. Lacks the front-end-paper. Name of Eliza Moore, 1830 at the head of the title-page. Scarce. 12mo. Newbury: printed at the Mentor Press. c1830.

£95.00

17. BREWSTER, David. The Life of Sir Isaac Newton. xv, [1], 366pp., woodcut vignette on title, text illustrations and diagrams, engraved portrait frontispiece. Original printed linen boards rather dull with some marks. Occasional foxing, and inner front joint cracked. small 8vo. John Murray. 1831.

£45.00

~ The first authoritative biography of Newton, published by Brewster to 'put the revelations of Biot, Bailly and others into their proper context' (Gjertsen).



18. WARTMANN, L.F. Memoire pour servir d'Explication a la Carte Celeste representant les positions et la mache des Cometes Periodiques de Halley et d'Encre dans leur retour en 1835. 28pp., folding chart. A very good copy in original printed wrappers. Some foxing. Scarce. 8vo. Geneve & Paris. 1835. £70.00

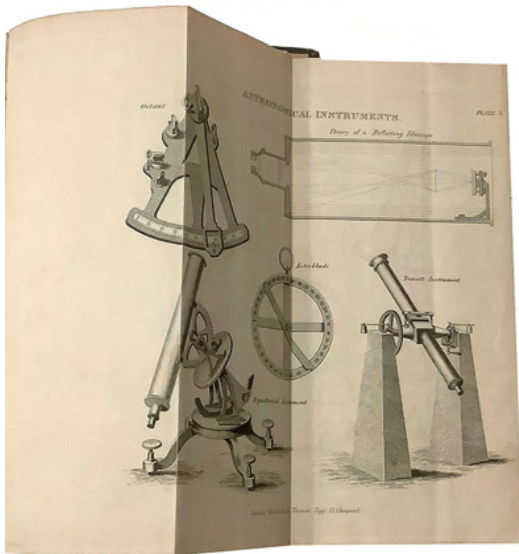
~ A rare separately issued scientific diagram and star chart, showing the path of Halley's Comet in 1835 and the path of Encke's comet in 1835. Louis-François Wartmann was an active observer of Comets and other astronomical phenomenon. His earliest published observations on the Comet Encke were made in 1828. His observations on the Comet Pegasus were published in several scientific journals in 1830. He also wrote on the altitudes and velocities of shooting stars, based upon observations made in August of 1838.

19. NICHOL, J.P. *The Phenomena and Order of the Solar System.* 241pp., 21 engraved plates. original linen cloth. Upper joint and the head of the spine are worn. Some light age toning, modern book-plate.
8vo. Edinburgh. William Tait. 1838. £45.00

~ John Pringle Nichol (1804-1859) was a Scottish educator, phrenologist, astronomer and economist who did much to popularise astronomy in the mid-nineteenth century. In 1836 he was appointed Regius Professor of Astronomy at the University of Glasgow.

20. VON LITTROW, Johann Joseph von. *Gnomonik, oder Anleitung zur Verfertigung aller Arten von Sonnenuhren.* Zweite, gänzlich umgearbeitete Auflage. iv, 108pp., 2 folding plates. Foxing to the title-page and edges of the book block, sometimes intruding onto the page. Contemporary boards, spine and board edges rubbed.
8vo. Wien, Gerold, 1838. £65.00

~ Joseph Johann von Littrow (1781-1840), was an Austrian astronomer. In 1837, he was ennobled with the title Joseph Johann Edler von Littrow. He became director of the Vienna Observatory in 1819, where he served in this position until his death in 1840. He created the only conformal retroazimuthal map projection, which is known as the Littrow projection.



21. KEITH, Thomas. *A New Treatise on the Use of the Globes, or, A Philosophical View of the Earth and Heavens Comprehending an account of the figure, magnitude, and motion of the earth.* A new edition, enlarged and improved by the Rev. G.N. Wright. xxiii, 364pp., 6 folding plates featuring "Improved Orrery", astronomical instruments, examples of spheres and movement. Contemporary blind stamped morocco cloth, some rubbing, light age toning, and the plates a little proud in the binding.
8vo. printed for Thomas Tegg. 1840. £40.00

~ Thomas Keith was a private tutor, and this popular work was first published in 1805.

22. HOUZEAU, Jean-Charles. *Sur Les Etoiles Filantes Periodiques du Mois d'Aout, et en particulier sur leur apparition de 1842.* 54pp. Disbound. A good copy.
4to. De l'Academie. 1844. £40.00

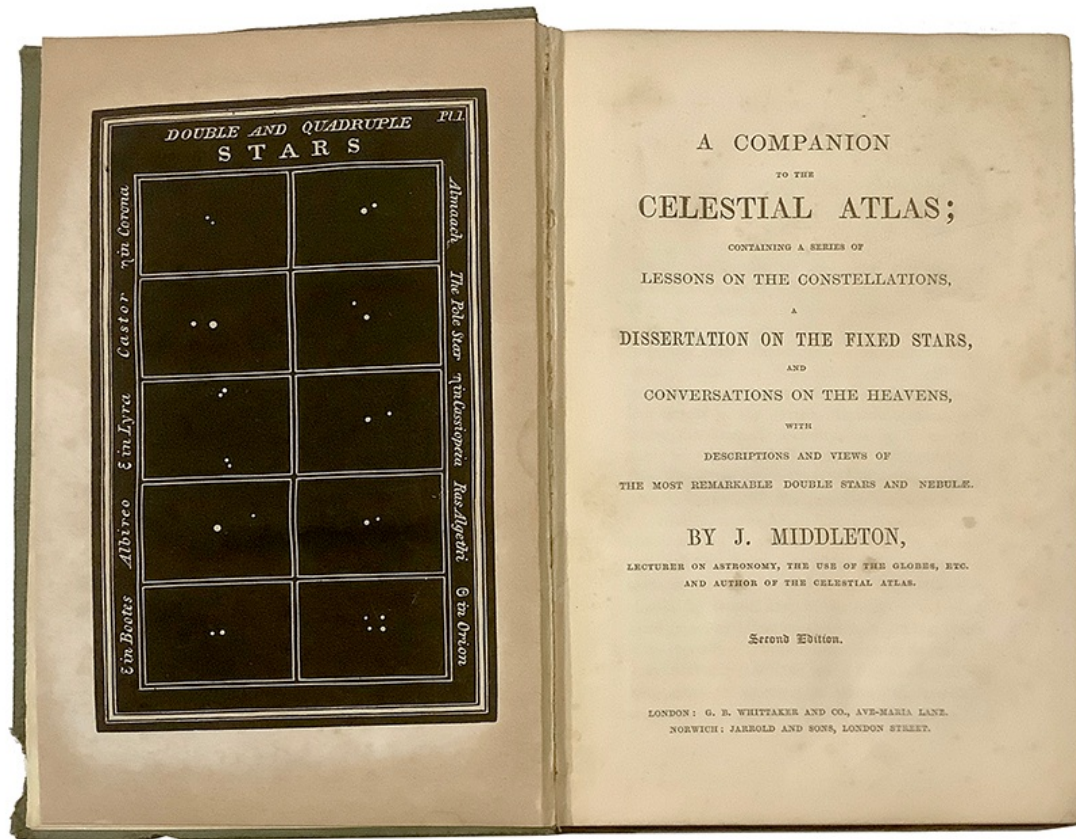
~ Jean-Charles Houzeau (1820-1888), was a Belgian astronomer and journalist. From 1842, he worked as a voluntary assistant at the Brussels Observatory and eventually became the observatory's director. He travelled frequently during his career, to Paris, the United Kingdom, United States, Mexico, and Jamaica. After being removed from the Belgian Royal Observatory for "outspoken political views", he emigrated to the United States.

23. COMSTOCK, John L. *First Book of Astronomy.* xv, [1], 120, [2]pp adverts., title-page vignette and text diagrams. Original linen cloth, covers very rubbed and rear board detached. Some dustiness and occasional marks to the text. Scarce.
small 8vo. Adam Scott. 1846. £30.00

~ John Lee Comstock (1787-1858), was an American surgeon and educator, who served as a surgeon in the War of 1812. Following the war, he produced numerous books on science targeting schools and general audiences, and his books were widely used.

24. JOYCE, Jeremiah. *Scientific Dialogues intended for the instruction and entertainment of Young People; in which the first principles of Natural and Experimental Philosophy are fully explained.* New Edition, complete in one volume with 185 woodcuts. 533pp., frontispiece, engraved title-page and text illustrations. Original dark blue gilt cloth, covers rubbed, some browning to the frontispiece and engraved title-page. Lacks the front-end-paper.
12mo. T. Allman & Sons. c1847. £20.00

~ Jeremiah Joyce (1763-1816), miscellaneous writer, who studied under the direction of the Rev. Hugh Worthington for the unitarian ministry. He acquired a good knowledge of mathematics and Latin, and received useful suggestions from Taylor the Platonist. He soon became tutor to the sons of Earl Stanhope. But he held advanced political views, joined the Society for Constitutional Information, and the London Corresponding Society, and on 4 May 1794 was arrested at Stanhope's house at Chevening, Kent, on a charge of 'treasonable practices.'



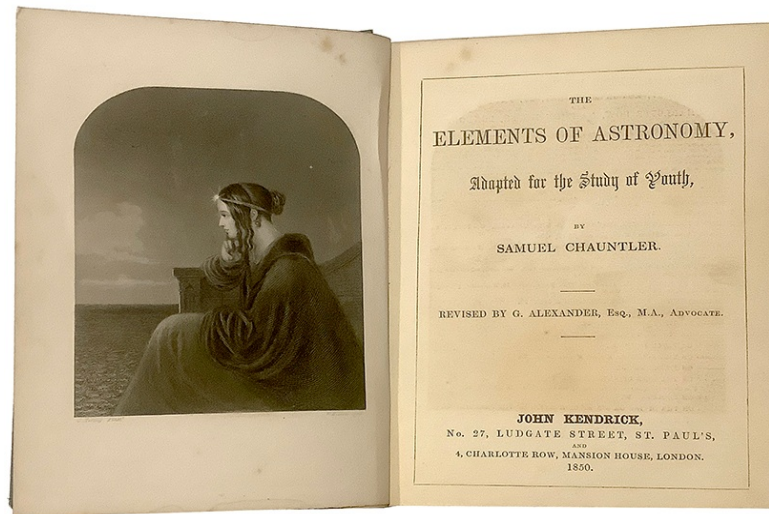
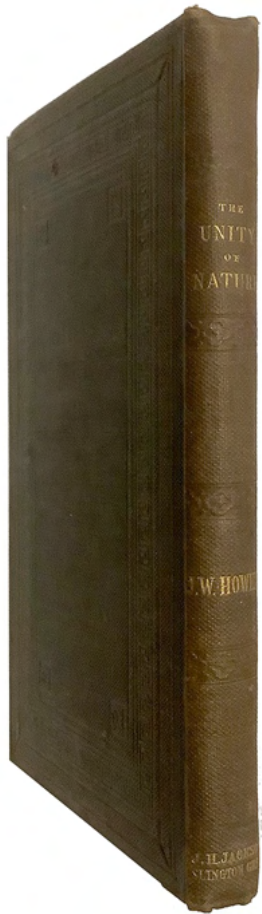
25. MIDDLETON, J. *A Companion to the Celestial Atlas: containing a series of lessons on the constellations: a dissertation on the fixed stars, and conversations on the heavens, with descriptions and views of the most remarkable double stars and nebulae.* Second edition. ix, 170pp., 2 unnumbered leaves of plates. A good copy in original dark green pebble grain cloth. Some wear to the lower edges of the front board, and the head of the spine. Some slight foxing. Scarce. 8vo. G.B. Whitaker and Co. [1847].

£95.00

26. JEANS, H.W. Hand-Book for the Stars: containing rules for finding the names and positions of all the stars of the first and second magnitude. Second edition. 45, 15, [1]p., *several text diagrams*. Original gilt lettered cloth. A good, ex- library copy with bookplate, stamp at head of the title-page, foot of final page, and white number at foot of the spine.
8vo. Levery, Robson, and Franklyn. 1848. £40.00

27. HOWELL, John Warren. The Unity of Nature. *xii, 143pp.* A very good hardback copy in original cloth. Scarce. small 8vo. J.H. Jackson. 1849. £40.00

~ The author was Hon. Sec. of the Bath Royal Literary & Scientific Institution.



28. CHAUNTLER, Samuel. The Elements of Astronomy, adapted for the study of youth. Revised by G. Alexander. [4], 218pp., *adverts., engraved frontispiece, text illustrations*. A good copy in rubbed original gilt cloth, all-edges-gilt. Scarce. 8vo. John Kendrick 1850. £50.00

29. CHAUNTLER, Samuel. *The Elements of Astronomy*. adapted for the study of youth. Revised by G. Alexander. [4], 218pp., adverts., engraved frontispiece, text illustrations. A good copy in rubbed original gilt cloth, all-edges-gilt. Front end-paper torn with loss, and name stamp on the recto of the frontispiece. Scarce.
8vo. John Kendrick 1850. £50.00

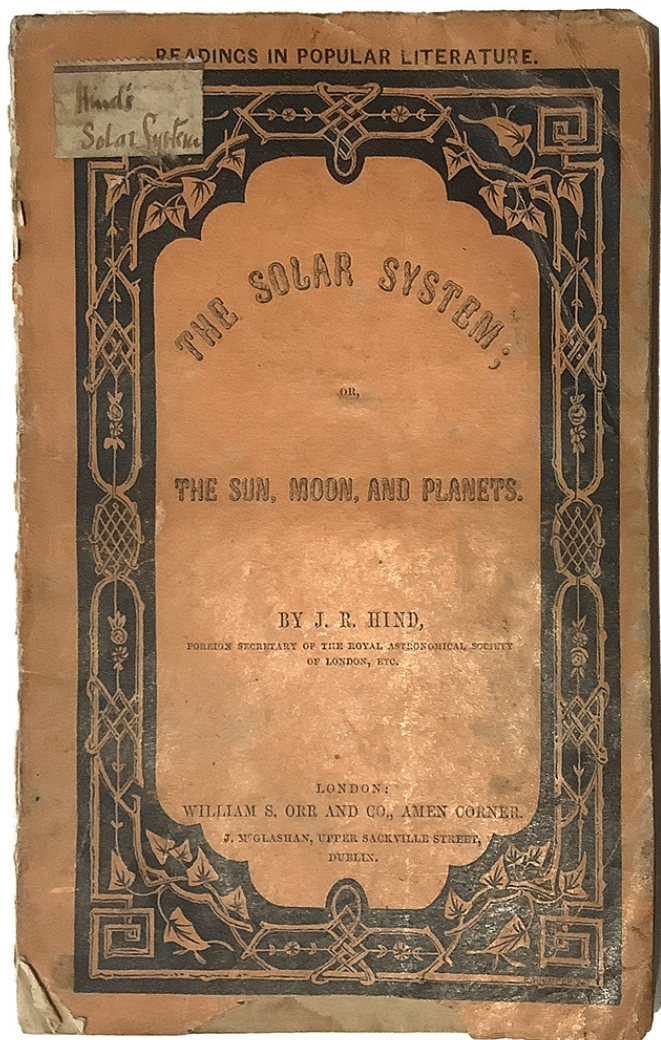
30. NICHOL, J.P. *The Planetary System: its order, and physical structure*. xiv, [2], 344pp., 5 plates. Worn and rubbed original cloth, spine has loss, and pages rather toned. Scarce.
8vo. Edinburgh: James Nichol. 1850. £40.00

31. OLMSTED, Denison. *The Mechanism of the Heavens; or, Familiar Illustrations of Astronomy*. With Historical and Biological Sketches. xii, (1), 14-404pp., with engraved title page, engraved frontispiece, and 24 colour plates; text illustrations. Original blind stamped and gilt lettered cloth. Covers rather dull, slight wear to the joints and corners. Some occasional foxing and age toning.
8vo. T. Nelson. [1850]. £45.00

~ Denison Olmsted (1791-1859), was an American physicist and astronomer, credited with giving birth to meteor science after the 1833 Leonid meteor shower over North America spurred him to study this phenomenon. Olmsted and his associate, Elias Loomis, were in 1835 the first American investigators to observe the Halley's Comet.

32. HERSCHEL, John. *A Treatise on Astronomy*. Engraved title, (4) pp (numbered vi-viii), 418pp., 3 lithographic plates. A good copy in original brown cloth. Some slight wear to the head and tail of the spine.
8vo. Longmans and Co. c1851. £40.00

~ Astronomer and philosopher Sir John Herschel (1792–1871), the son of William and the nephew of Caroline, first published his *Treatise on Astronomy* in 1833 in the 'Cabinet Cyclopaedia'. He is regarded as the founder of the philosophy of science



33. HIND, J. Russell. *The Solar System: a descriptive treatise upon the sun, moon, and planets, including an account of all the recent discoveries.* 138, [2]pp index., tinted frontispiece. Original printed wrappers are worn on the backstrip and lower front margin. Some occasional foxing and stitching rather loose. Scarce. small 8vo. William S. Orr. [1851]. £40.00

~ John Russell Hind (1823-1895). Aged 17 he went to London to serve an apprenticeship as a civil engineer, but through the help of Charles Wheatstone he left engineering to accept a position at the Royal Observatory, Greenwich under George Biddell Airy. He remained there from 1840 to 1844, at which time he succeeded W. R. Dawes as director of the private George Bishop's Observatory. In 1853 Hind became Superintendent of the Nautical Almanac, a position he held until 1891. He is notable for being one of the early discoverers of asteroids.

34. MIDDLETON, J. Astronomy, and the Use of Globes, for Schools and Families. Second edition. *xiv, 198pp., frontispiece, diagrams.* Original cloth, rather rubbed, a few marginal pencil lines, several gatherings proud in the binding. Lacks the front end paper, and half-title partially stuck to the inner front board.

8vo. Jarrold and Sons. [1851].

£25.00

35. HIND, J.R. The Illustrated London Astronomy. *viii, 99, [1], [4]pp adverts., half-title., text illustrations.* Original cloth rather worn and darkened, spine has loss at the foot. A good copy internally. Name of John Walmsley, 1854 written across the title-page.

8vo. Ingram, Cooke, and Co. 1853.

£40.00

36. STRUVE, O. Beobachtungen Bielaschen Cometen im Jahre 1852. *26pp., 2 plates.* Original blue printed wrappers, which have some chipping to the edges. Scarce.

4to. St Petersburg. 1854.

£65.00

~ Biela's Comet or Comet Biela (official designation: 3D/Biela) was a periodic Jupiter-family comet first recorded in 1772 by Montaigne and Messier and finally identified as periodic in 1826 by Wilhelm von Biela. It was subsequently observed to split in two and has not been seen since 1852.

37. [WHEWELL, William]. Of the Plurality of Worlds: an Essay. The second edition. *xvi, 395, 4pp adverts., frontispiece.* An ex-library copy in original blue cloth. Text not stamped, but with bookplate, withdrawn stamp on end-paper, number at foot of the spine, and inner joint repaired with tape. Spine dull and with some wear to the head and tail.

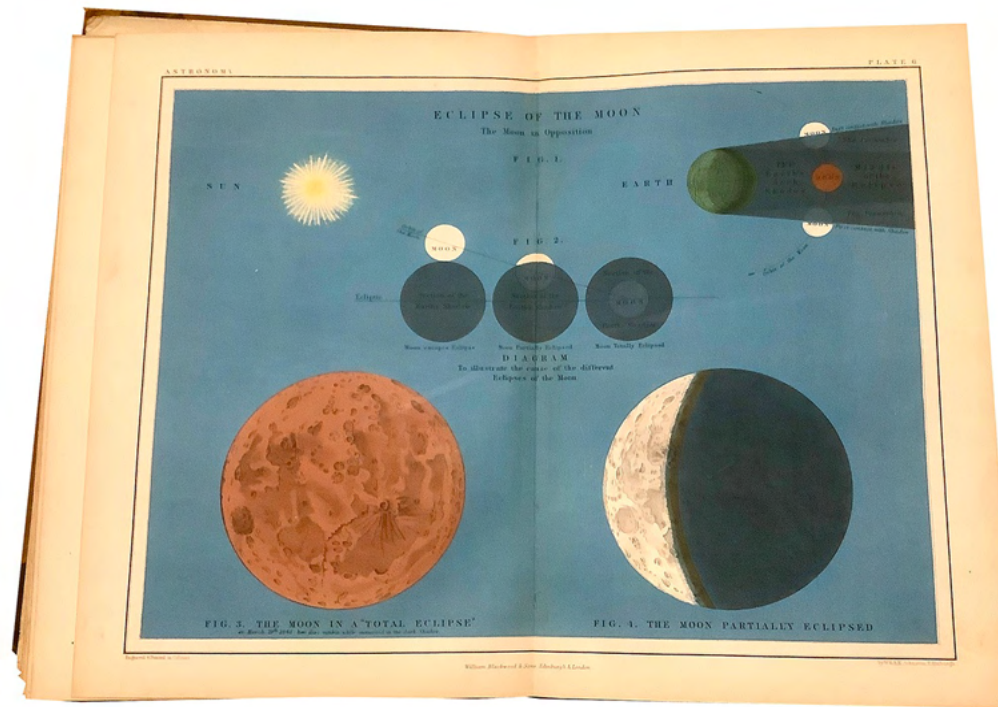
8vo. John W.Parker and Son. 1854.

£30.00

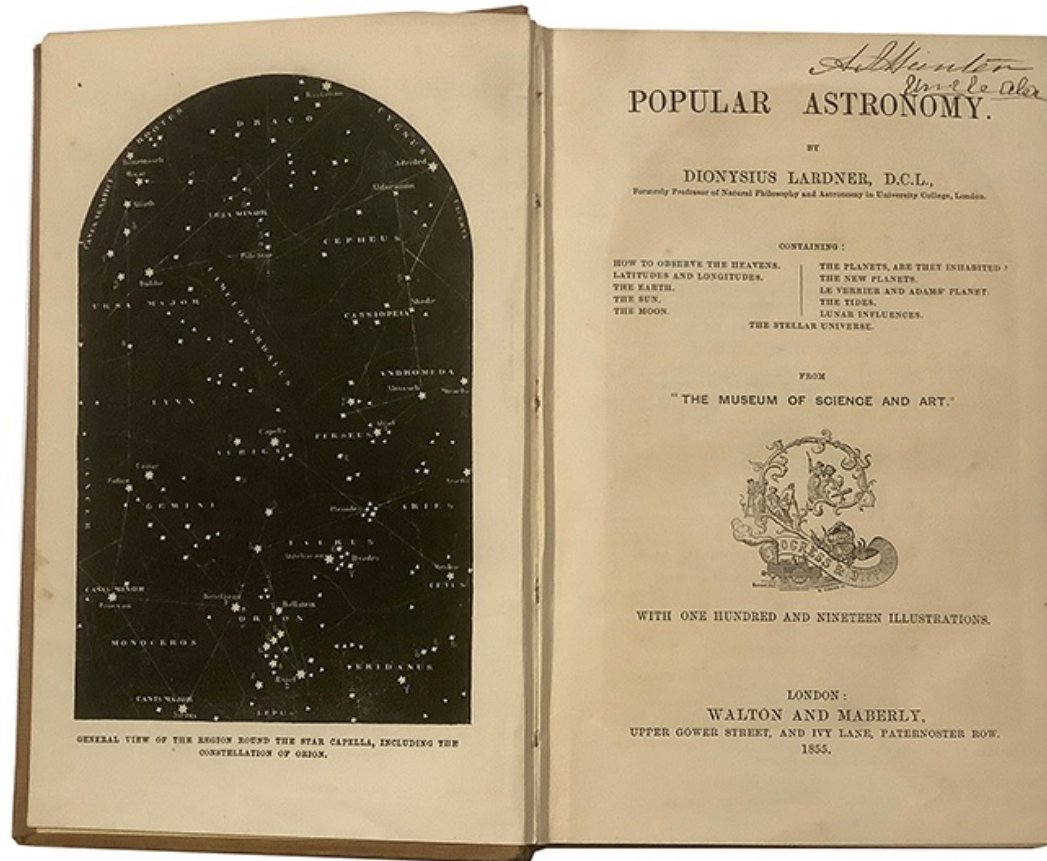
~ William Whewell (1794–1866) was one of the most important and influential figures in nineteenth-century Britain. Whewell, a polymath, wrote extensively on numerous subjects, including mechanics, mineralogy, geology, astronomy, political economy, theology, educational reform, international law, and architecture, as well as the works that remain the most well-known today in philosophy of science, history of science, and moral philosophy. He was one of the founding members and a president of the British Association for the Advancement of Science, a fellow of the Royal Society, president of the Geological Society, and longtime Master of Trinity College, Cambridge. In his own time his influence was acknowledged by the major scientists of the day, such as John Herschel, Charles Darwin, Charles Lyell and Michael Faraday, who frequently turned to Whewell for philosophical and scientific advice, and, interestingly, for terminological assistance.

38. DERYAUX, Antoine. *Decouverte de la Veritable Astronomie basee sur la loi commune aux mouvements des corps.* 125, [1]p., 2 large folding star charts. Original printed wrappers which have some loss at the rear and upper front corners. Some foxing, and small stamp of Bibliotheque Charles Jaillet, Vienne on the inner wrappers. 8vo. Vienne. Octobre, 1855. £75.00

~ Third edition, preceded by Paris, 1853 and Vienna, 1854. The large folding plates depict positions of the zodiac and the solar system.

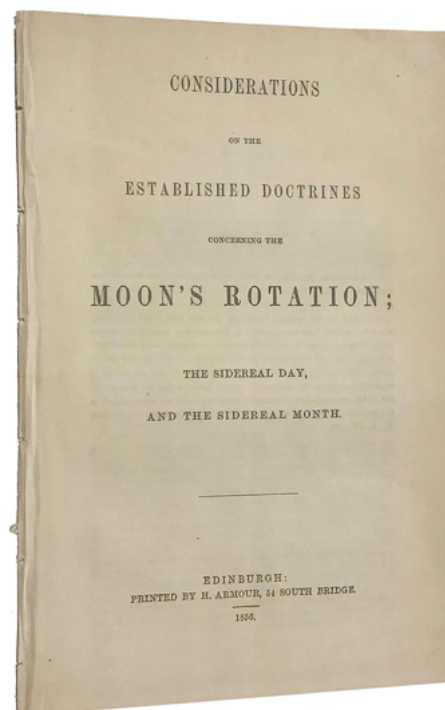
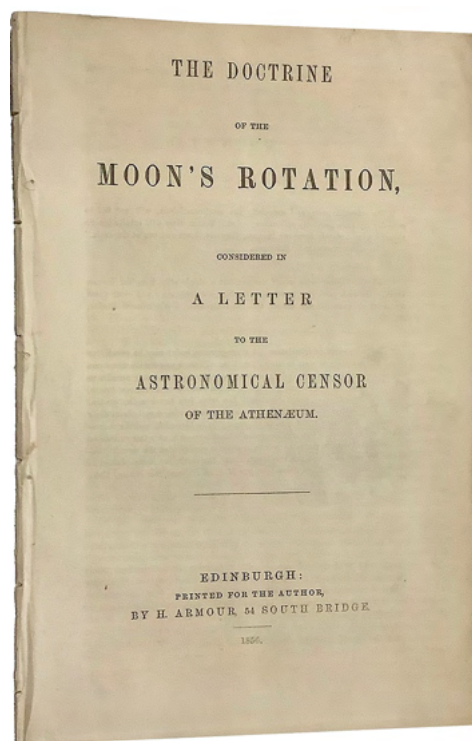


39. JOHNSTON, A. Keith. *A School Atlas of Astronomy.* Comprising, in Twenty-One Plates, a Complete Series of Illustrations of the Heavenly Bodies. 16pp., 18 double-page coloured plates. Original gilt lettered cloth boards, leather spine and corners. Boards detached, spine missing and corners worn. Some foxing to the preliminaries, but text and plates clean, though loose in the binding. Scarce. 4to. William Blackwood and Sons. 1855. £50.00



40. LARDNER, Dionysius. Popular Astronomy. A good copy in original blind and gilt stamped brown cloth. 119 illustrations, errata slip. Some light age toning to the paper.
 8vo. Walton and Maberly. 1855. £45.00

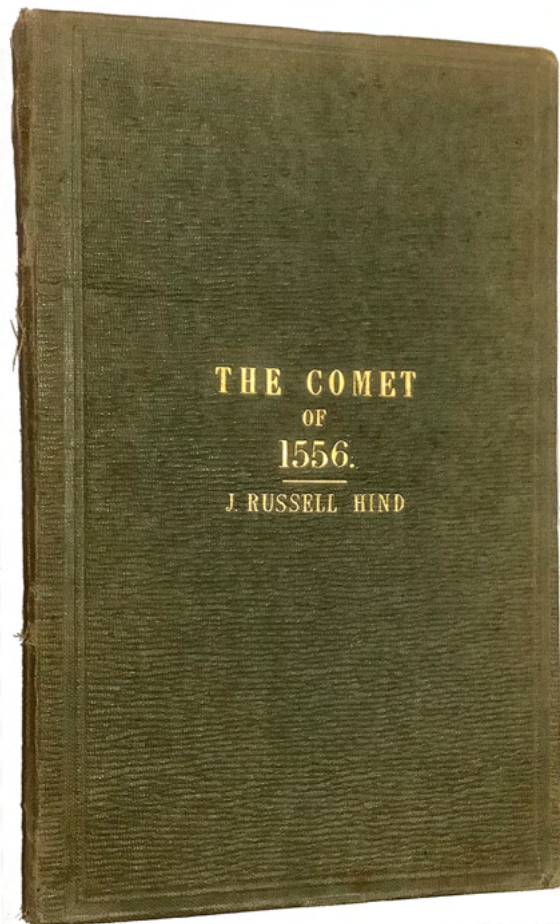
~ A collection of articles from Lardner's Museum of Science, with contents listed on title-page, and separate table of contents. The latter has note at head: "As this book is not paged, the figures in the Table of Contents refer to Paragraphs, and not to Pages."



41. MAC-ELSHENDER, James L. The Doctrine of the Moon's Rotation, considered in a letter to the astronomical censor of the Athenæum. 18pp. Disbound. A good copy. Scarce. 8vo. Edinburgh: printed for the Author. 1856. £40.00

42. MOON'S ROTATION. Considerations on the Established Doctrines concerning the Moon's rotation, the sidereal day, and the sidereal month. [Signed, V.S.V., J.L., C.T.C.E.]. 8pp. Disbound. A good copy. Scarce. 8vo. Edinburgh: printed by H. Armour. 1856. £40.00

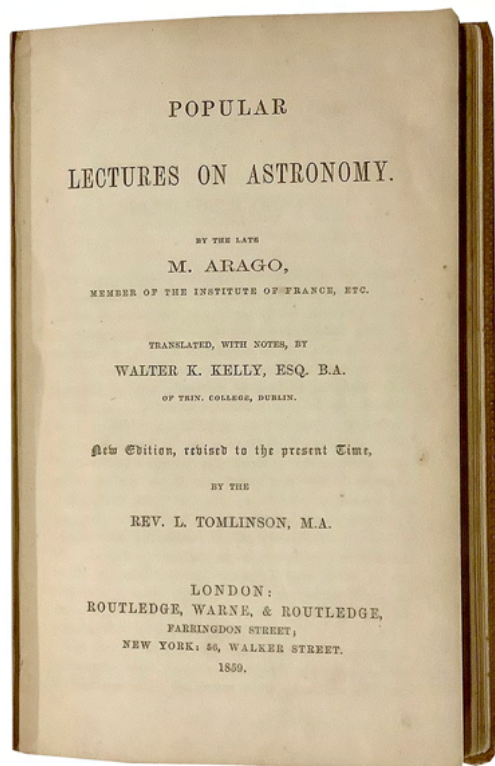
43. ROBINSON, William The First Chapter of the Bible, and the Last Chapter of Astronomical Science, viewed in Conjunction. A Discourse, delivered at Cambridge, July 6, 1856. 28pp. Disbound, a good copy.
8vo. Cambridge: Macmillan and Co. 1856. £12.00



44. HIND, J. Russell. The Comet of 1556; being popular replies to every-day questions, referring to its anticipated re-appearance, with some observations on the apprehension of danger from comets. xii, 69, [3]pp., *half-title*. A good copy in original gilt lettered sage green limp cloth. Title written down the backstrip which is a little faded and slightly worn. Inner joints cracked. Very scarce.
8vo. John W. Parker and Son. 1857. £120.00

~ The Great Comet of 1556 is called the comet of Charles V. When the Emperor first caught sight of it he stood aghast, and exclaimed: "By this dread sign my fates do summon me".

John Russell Hind was led to conclude, as Richard Dunthorne had been in the previous century, that the comet of Charles V was that of 1264 returned. He found a high degree of probability in favour of the conclusion at which he had arrived, and argued that the bodies of these years were identical. Hence he concluded that a return to might be predicted for about the middle of the 19th century, 1848 to 1850. This prediction failed, and so far no observed comet has matched the orbital elements of either comet.



45. ARAGO, Francois. Popular Lectures on Astronomy. Translated, with notes, by Walter K. Kelly. New edition, revised to the present time, by the late Rev. L. Tomlinson. *Xii, 209, [1],[2]pp adverts., half-title., text diagrams.* A good copy in original blind stamped and gilt lettered brown cloth. Plainly rebacked and with paper label. Slight wear to the corners, and owner's name on the end-paper.

small 8vo. Routledge, Warne, & Routledge. 1859.

£50.00

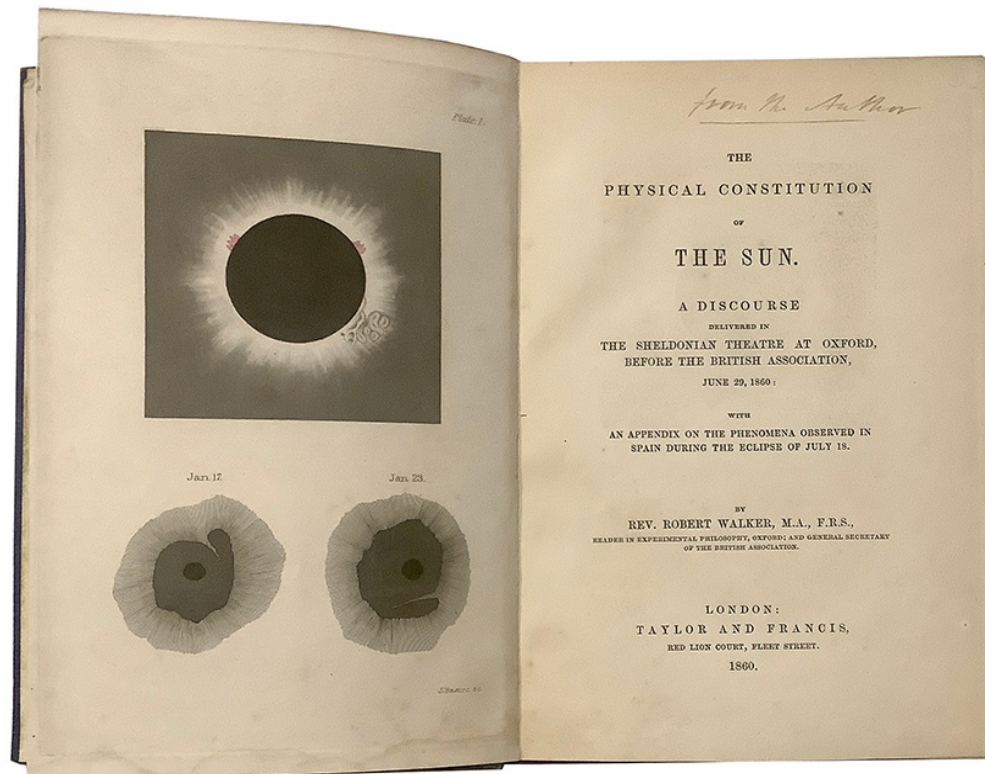
~ François Arago (1786-1853), was a French physicist who discovered the principle of the production of magnetism by rotation of a nonmagnetic conductor. He also devised an experiment that proved the wave theory of light and engaged with others in research that led to the discovery of the laws of light polarization.

46. LARDNER, Dionysius. Popular Astronomy. A good copy in original gilt lettered dark blue cloth. *119 illustrations.* Some light age toning to the paper, and covers a little rubbed at the extremities. Owner's name dated 1882 on the end-paper.

8vo. Lockwood & Co. c.1860.

£35.00

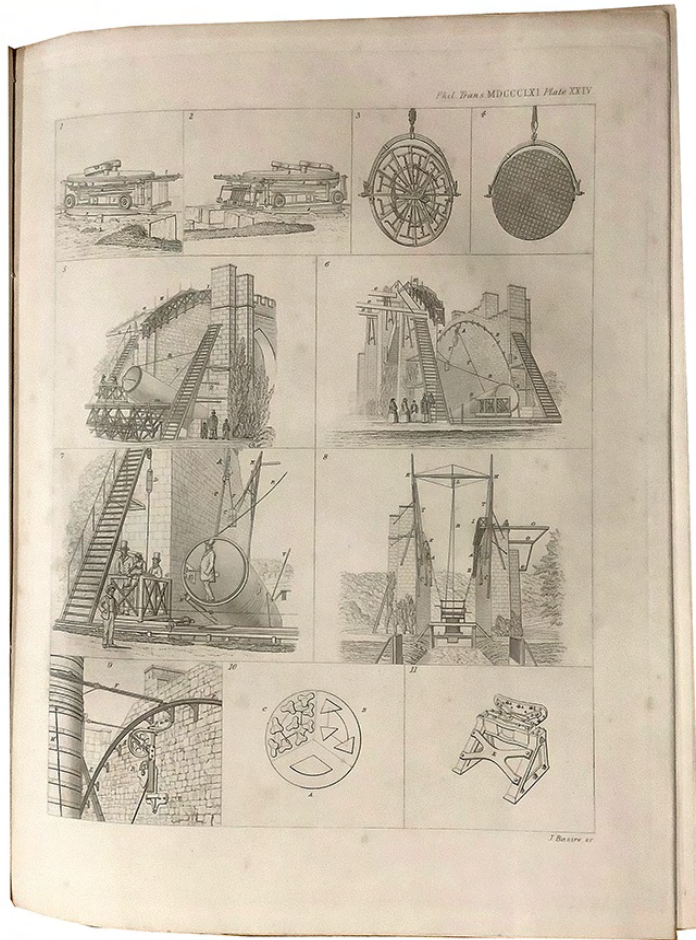
~ A collection of articles from Lardner's Museum of Science, with contents listed on title-page, and separate table of contents. The latter has note at head: "As this book is not paged, the figures in the Table of Contents refer to Paragraphs, and not to Pages."



47. WALKER, Robert. *Physical Constitution Of The Sun: A Discourse Delivered in the Sheldonian Theatre at Oxford, before the British Association, June 29, 1860: With An Appendix on the phenomena observed in Spain during the eclipse of July 18.* First edition. *viii*, 63, [1]p., *half-title*, 4 *plates*. A good copy in original blind stamped dark blue cloth. Spine worn with some loss, bookplate removed. Presentation copy from the author, and ownership name of T. Walker, October 18, 1861. Very scarce. 8vo. Taylor and Francis. 1860. £95.00

~ The eclipse of 18th July 1860 was the most important solar eclipse of the nineteenth century.

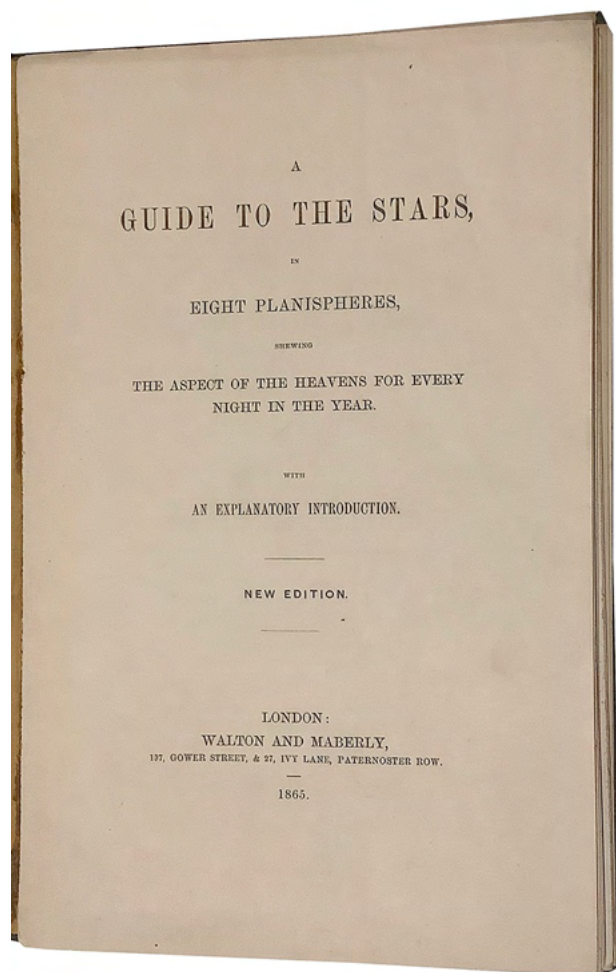
48. CHEYNE, C.H.H. An Elementary Treatise on the Planetary Theory, with a Collection of Problems. First edition. *xii, 148, 12pp adverts., half-title*. A good copy in original dark green cloth. Withdrawn stamp of St Andrews University Library on the title-page. 8vo. Cambridge: Macmillan and Co. 1862. £35.00



49. ROYAL SOCIETY. Philosophical Transactions of the Royal Society of London. For the Year MDCCCLXI. Vol. 151 - Part III. *v, [3], 655-839, 24pp., 16 plates (some folding)*. A near fine copy in original printed wrappers. 4to. Taylor & Francis. 1862. £60.00

~ This includes: "On the construction of specula of six-feet aperture; and a selection from the observations of nebulae made with them", by William Parsons, 3rd Earl of Rosse, A plate depicts a view of the speculum on supporting levers supported on a cast iron rail carriage. The carriage is shown on a turntable situated to the north side of the Parsonstown 72-inch reflecting telescope. The background is screened off by a dark cloth over which some details of trees and part of the supporting structure for the telescope are visible. The image was intended to show the weights and levers for counterpoising the secondary triangles. The instrument, the largest reflecting telescope in the world when built, was at Birr Castle, Parsonstown, Ireland.

50. DARBY, W.A. *The Astronomical Observer. A Hand-Book to the Observatory and the Common Telescope.* xxxv, [1], 104pp., *text diagrams*. Original cloth, covers dull and spine and corners worn. Some light old waterstaining to some lower margins. A few marginal notes, and lacks the front-end-paper. Scarce.
8vo. Robert Hardwicke. 1864. £40.00



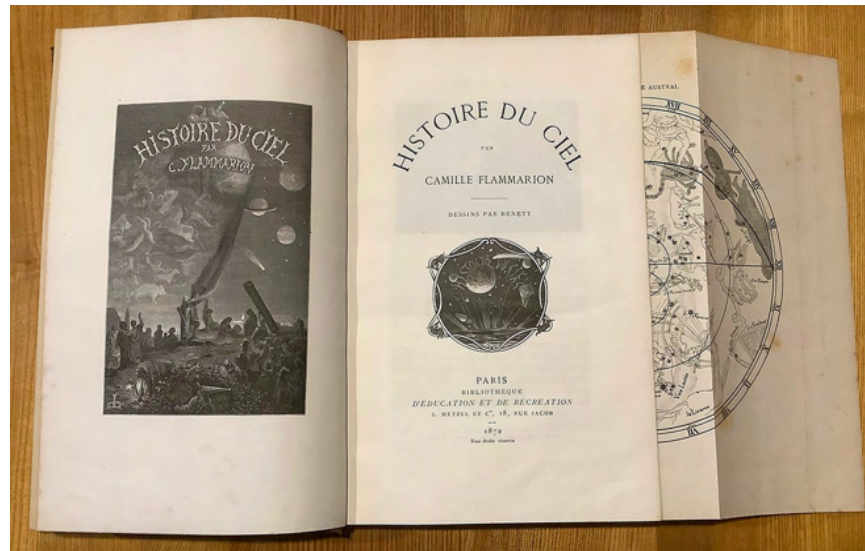
51. A GUIDE TO THE STARS in Eight Planispheres. shewing the aspect of the Heavens for every night in the year. with an explanatory introduction. New edition. [22], [8]pp *adverts.* . 8 *folding plates of star maps*. Original gilt lettered dark green cloth. Pages loose in the binding, and plates have old waterstain, which is also slightly noticeable on the leading edge of the boards.
8vo. Walton and Maberly. 1865. £45.00
52. GUILLEMIN, Amedee. *The Heavens. An Illustrated Handbook of Popular Astronomy.* Second edition. xxiii, [1], 524pp., 39 *plates, including frontispiece, and numerous in-text illustrations*. A good copy in original dark blue gilt cloth. Some occasional foxing, and slight edge rubbing. Slight damage to the spine.
8vo. Richard Bentley & Son. 1867. £45.00

~ Amédée Guillemin, a French science writer, was born in 1826. He wrote a number of works of popular science between 1866 and 1886, including on the heavens (1866), the Moon (1868), and the Sun (1873), all of which were beautifully illustrated and well received.

53. GUILLEMIN, Amedee. *Le Ciel. Notions d'Astronomie.* Quatrieme edition. xii, 738pp., 45 *plates (12 in colour) and 231 text vignettes*. Contemporary morocco rather rubbed and some wear to rear joint. Occasional foxing and label removed from the front-end-paper.
large 8vo. Paris. Hachette et Co. 1870. £40.00

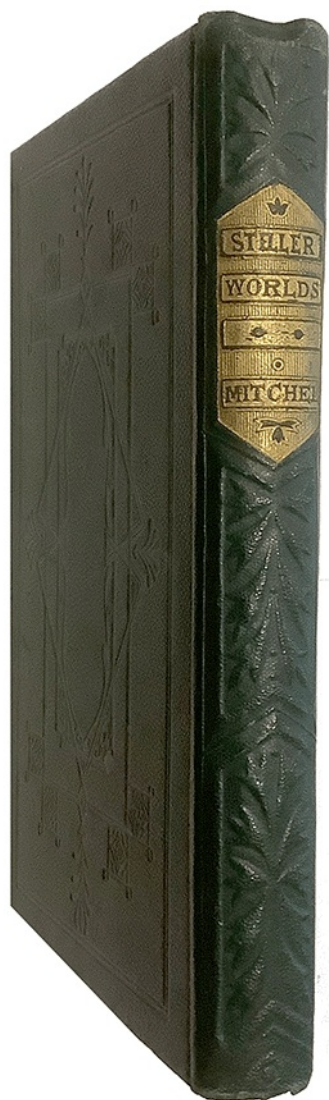
54. MITCHEL, Ormsby Macknight. *The Planetary and Worlds: a popular exposition of the great discoveries and theories of modern astronomy.* 264pp., 18 plates (some two to a page). A good copy in original blind stamped and gilt lettered dark blue cloth. Some foxing and browning, and lacks the rear-end-paper. First published in 1848
8vo. William Collins. 1865. £30.00

~ Ormsby MacKnight Mitchel (1810-1862), was an American astronomer, polymath, and major general in the American Civil War. He is known for publishing the first astronomy magazine in the United States.

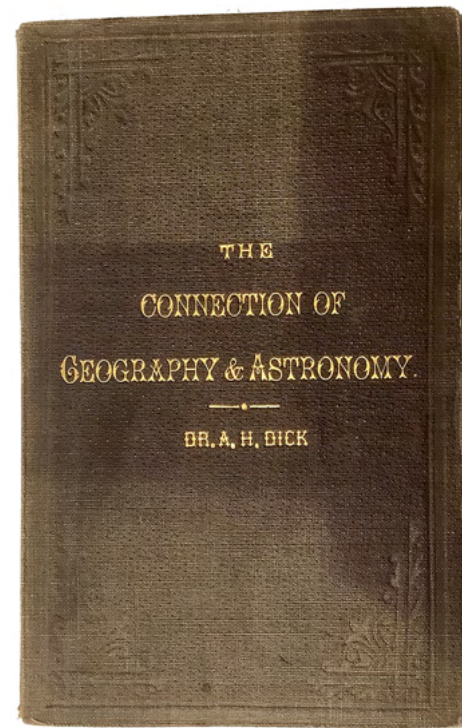
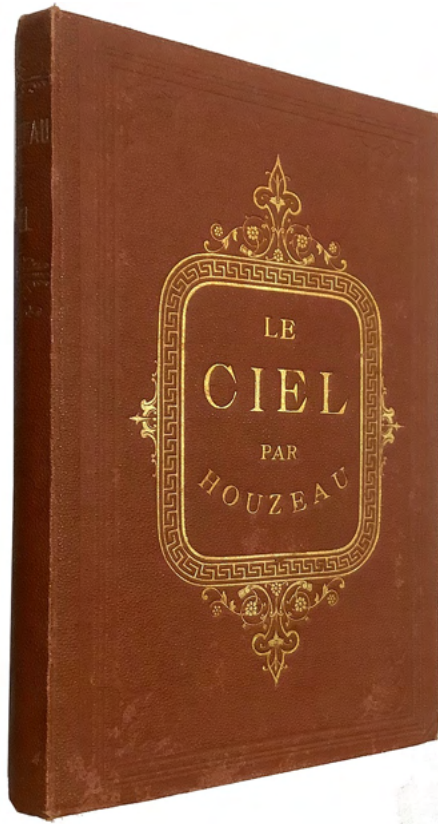


55. FLAMMARION, Camille. *Histoire du Ciel.* Dessins par Benett. 467pp., frontispiece, 20 plates, and a folding map of constellations. A good copy in near contemporary cloth, spine a little faded, and some occasional foxing.
4to. Paris. Bibliotheque d'Education et du Recreation. 1872. £60.00

~ Nicolas Camille Flammarion (1842-1925), was a French astronomer and author of more than fifty titles, including popular science works about astronomy, several notable early science fiction novels, and works on psychical research and related topics. He also published the magazine *L'Astronomie*, starting in 1882. He maintained a private observatory at Juvisy-sur-Orge, France.



56. MITCHEL, Ormsby Macknight. *The Planetary and Stellar Worlds: a popular exposition of the great discoveries and theories of modern astronomy. 264pp., 18 plates (some two to a page). A very good copy in original blind stamped and gilt lettered dark green cloth. First published in 1848*
8vo. William Collins. 1872. £40.00
57. LOCKYER, J. Norman. *Astronomy. 120pp., illustrations. A good copy in original cloth. Some rubbing a upper board slightly creased.*
small 8vo. Macmillan and Co. 1874. £12.00
58. GODFRAY, Hugh. *A Treatise on Astronomy. Second edition. xvi, 320pp., text diagrams. Notes on the rear end-paper. A good copy in original green cloth.*
8vo. Macmillan and Co. 1874. £20.00
59. LARDNER, Dionysius. *Handbook of Astronomy. Fourth edition, revised and edited by Edward Dunkin. xxi, [1], 528pp., adverts., half-title., 38 plates (some folding), and c100 text illustrations. Original dark blue gilt lettered cloth. Rubbing to joints and board edges, owner's name on recto of frontispiece.*
8vo. Lockwood and Co. 1875. £25.00
60. TISSOT, A. *Precis de Cosmographie. Third edition. [4], 194, [2]pp adverts., diagrams. Some foxing but a good copy in original quarter cloth, marbled boards.*
8vo. Paris. G. Masson. 1875. £20.00



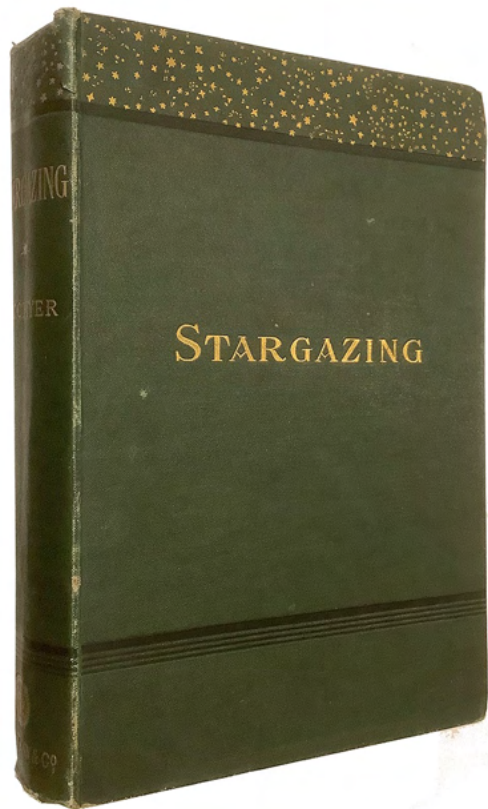
61. HOUZEAU, J.C. *Le Ciel mis a la Portee de Tout le Monde.* *xix, [1], 240pp., frontispiece, 4 folding star charts, and text illustrations.*
A very good copy in original brown gilt cloth.
8vo. Bruxelles. 1877.

£25.00

62. DICK, A.H. *The Connection of Geography and Astronomy.* An elementary text book. New edition. *122, [6]pp adverts., frontispiece and text illustrations.* A good copy in original gilt lettered limp cloth. Some slight uneven fading to the covers. Scarce.
small 8vo. Thomas Murby. 1877.

£30.00

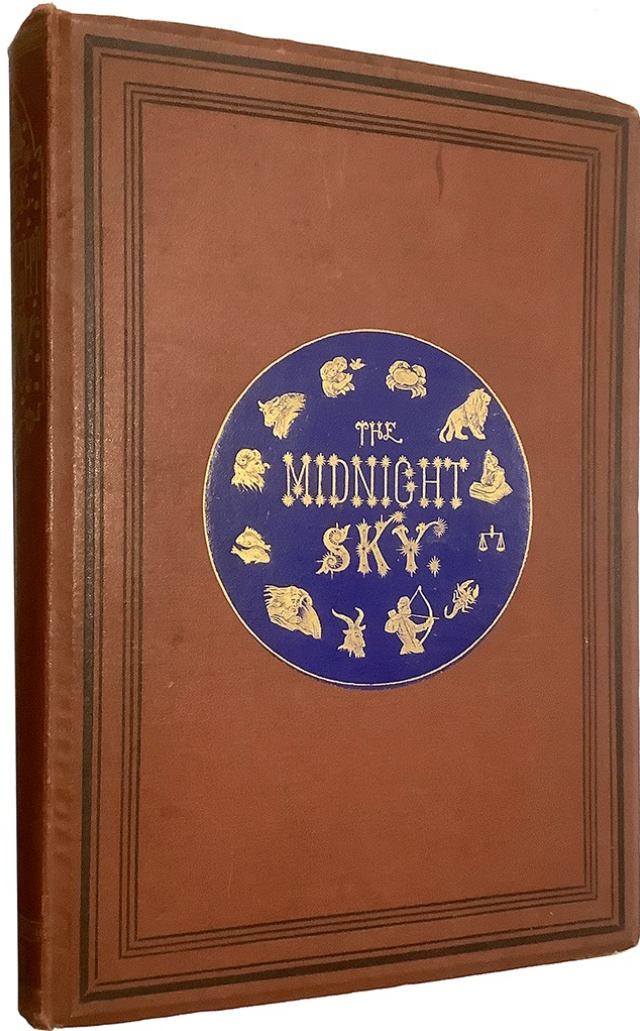
63. AIRY, Sir G.B. Copy "of the Report of the Astronomer Royal, Sir G.B. Airy, K.C.B., on the Telescopic Observations of the Transit of Venus, 1874, made in the Expedition of the British Government, and on the Conclusion derived from those Observations. 34pp., 6 plates. Stitched as issued. A very good copy, with some slight age toning. Scarce.
4to. House of Commons. 16 July. 1877. £60.00



64. LOCKYER, J.Norman. Stargazing: Past and Present. First edition. *xiv*, [2], 496pp., half-title., frontispiece of Newall's telescope and 217 illustrations in the text. A good copy in original green gilt cloth. Some edge rubbing to the boards, and occasional foxing and light toning.
8vo. Macmillan and Co. 1878. £95.00

~ Lockyer, (1836-1920), is credited with the discovery of Helium and was the founder and first editor of the journal "Nature".

65. PROCTOR, Richard A, Half-Hours with the Stars. A Plain and Easy Guide to the Knowledge of the Constellations. Showing, in Twelve Maps; the Position of the Principal Star-Groups Night After Night. Ninth thousand. 22pp., 12 star charts. The text and star chart pages are loose by design, as they were meant to be removed from the book and held up to the night sky for comparison. Original linen backed boards. Covers rubbed with some edge wear, but clean internally.
4to. Hardwicke & Bogue. 1878. £65.00

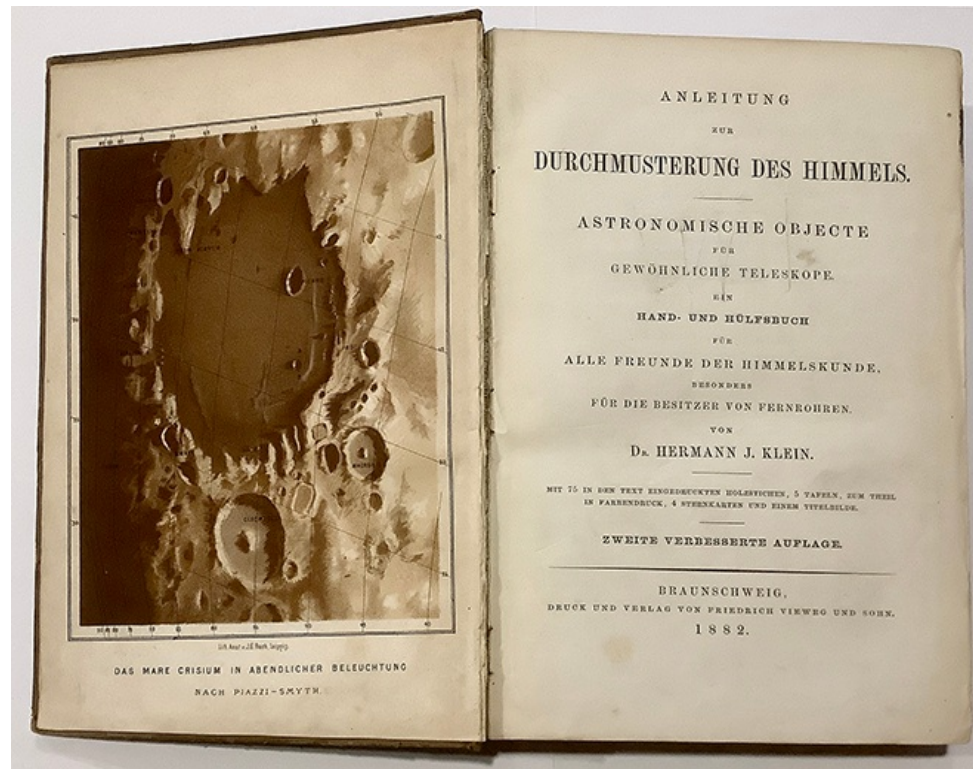


66. DUNKIN, Edwin. *The Midnight Sky: familiar notes on the stars and planets. With thirty-two star-maps and numerous other illustrations. New and revised edition. [8], 340pp., plates.* A very good copy in original brown cloth with circular blue gilt central panel to the upper board. Some very slight rubbing.
4to. Religious Tract Society. 1879. £95.00

67. ROYAL SOCIETY. *Philosophical Transactions of the Royal Society of London. For the Year MDCCCLXXX. Vol. 171 - Part 1. 419, [1]p., 13 plates.* A very good clean copy in original gilt lettered cloth.
4to. Harrison and Sons. 1880. £75.00

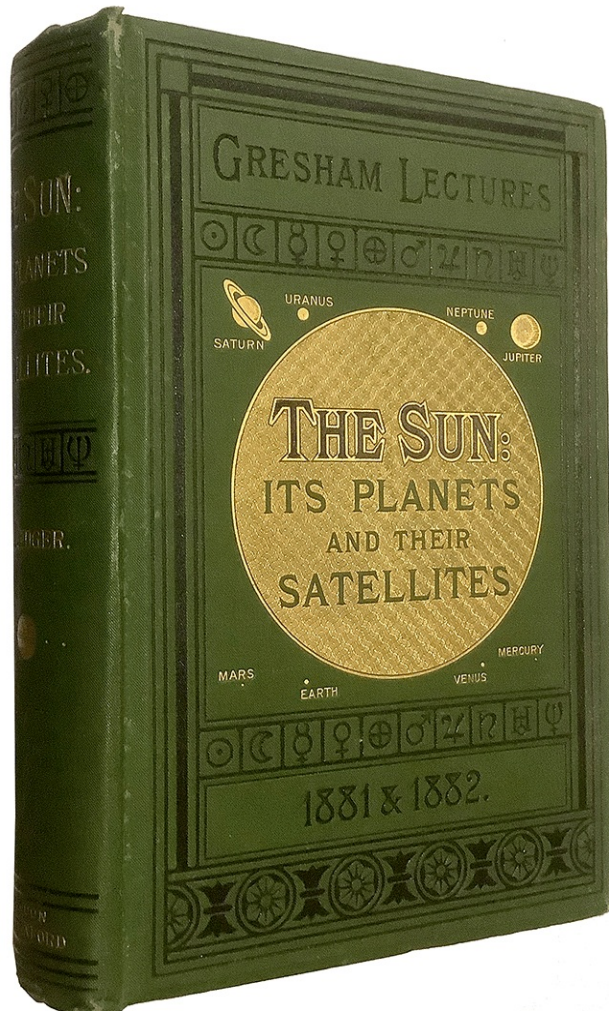
~ Includes: "On Some Recent Improvements in the Mountings of Telescopes at Birr Castle - By the Earl of Rosse."

68. LUBBOCK, Sir J.W. *An Elementary Treatise on the Tides, based upon that of the late J.W. Lubbock. to which is added a newly-devised method of computation of the heights of high water at Liverpool, with factors for other ports and tables adopted by the Admiralty, by James Pearson. [4], 33, [13]pp tables and index., errata slip., 5 plates (one folding, map.)* Some age toning to the paper but a good copy in original gilt lettered dark blue cloth. Scarce.
8vo. J.D. Potter. 1881. £40.00



69. KLEIN, Hermann J. *Anleitung zur Durchmusterung des Himmels. Astronomische Objecte für gewöhnliche Teleskope. Ein Hand- und Hilfsbuch für alle Freunde der Himmelskunde, besonders für die Besitzer von Fernrohren.* xviii, [1], 592pp., 75 text illustrations, 5 plates, 4 star maps, and lithographic frontispiece. Bound in slightly later plain brown cloth which has wear to the board edges, and some age toning to the paper. 8vo. Braunschweig, 1882. £25.00

~ Hermann Joseph Klein (1844-1914), was a German astronomer, author and professor. Born in Cologne, Germany on 14 September 1844, he attained his doctorate from the University of Cologne in 1874, and taught at the school. He was a member of the Selenographic Society and the crater Klein on the Moon is now named after him. In 1878 he claimed to have discovered a new crater on the Moon near Hyginus.

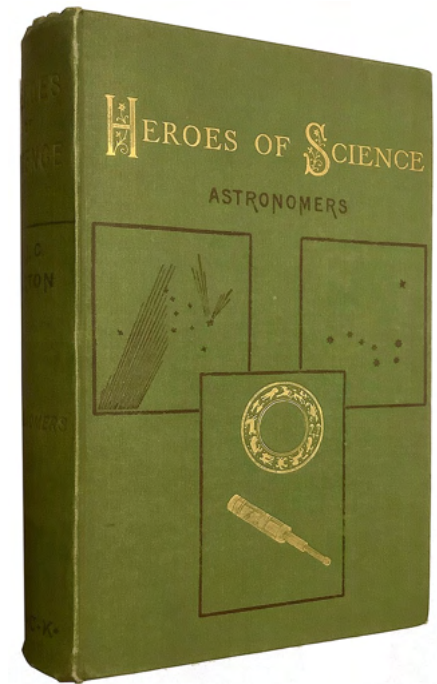


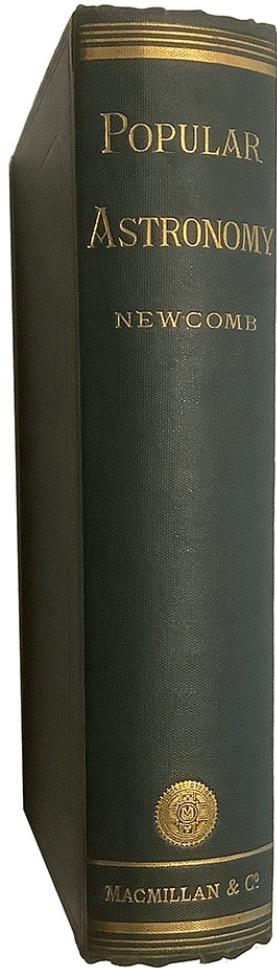
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70. LEDGER, Edmund. *The Sun: its Planets and their Satellites. A course of lectures upon the Solar System. xiv, 432pp., half-title., 94 woodcuts, 8 woodbury photo and lithographic plates (one set of three in colour) fold out chart of Mars as frontispiece.* A very good copy in original green gilt cloth. Some occasional slight foxing, and rear end paper trimmed.
8vo. Edward Stanford. 1882. £95.00

71. LEDGER, Edmund. *The Sun: its Planets and their Satellites. A course of lectures upon the Solar System. xiv, 432pp., half-title., 94 woodcuts, 8 woodbury photo and lithographic plates (one set of three in colour) fold out chart of Mars as frontispiece.* A very good copy in original green gilt cloth. Some foxing to the edges of the book block, occasionally intruding onto the page.
8vo. Edward Stanford. 1882. £85.00

72. MORTON, E.J.C. *Heroes of Science. Astronomers. vi, [2], 341, 8pp adverts., text diagrams.* A good copy in slightly rubbed original cloth. College prize label dated 1894 on the inner front board. Some foxing.
8vo. SPCK. [1882]. £20.00

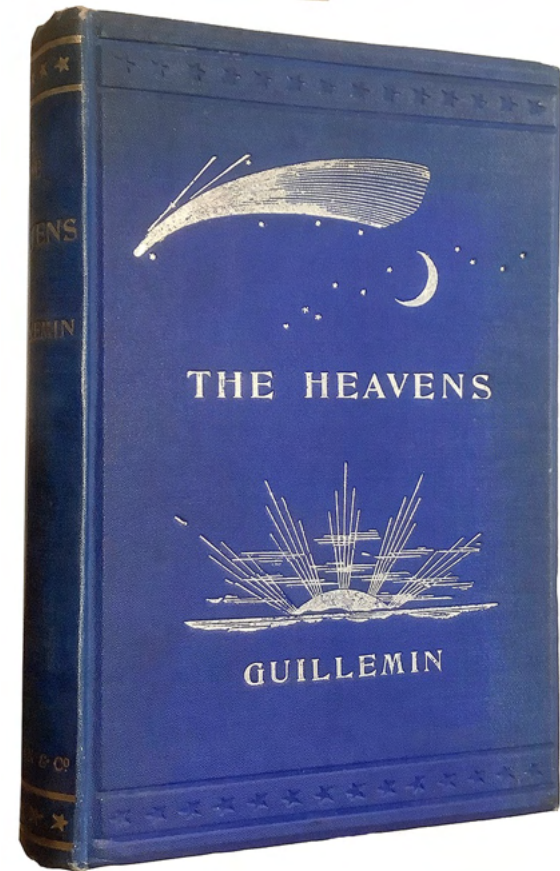




73. NEWCOMB, Simon. Popular Astronomy. Second edition, revised. xx, 5791, [1]p., half-title., 5 star maps, and 112 illustrations. A very good copy in original dark green gilt lettered cloth. 8vo. Macmillan and Co. 1883. £40.00

"The commanding figure of United states astronomy in the 19th century, Simon Newcomb systematized and brought unparalleled precision to our knowledge of the Solar System." Hockey, Biographical Encyclopedia of Astronomers, Vol. II, p. 827.

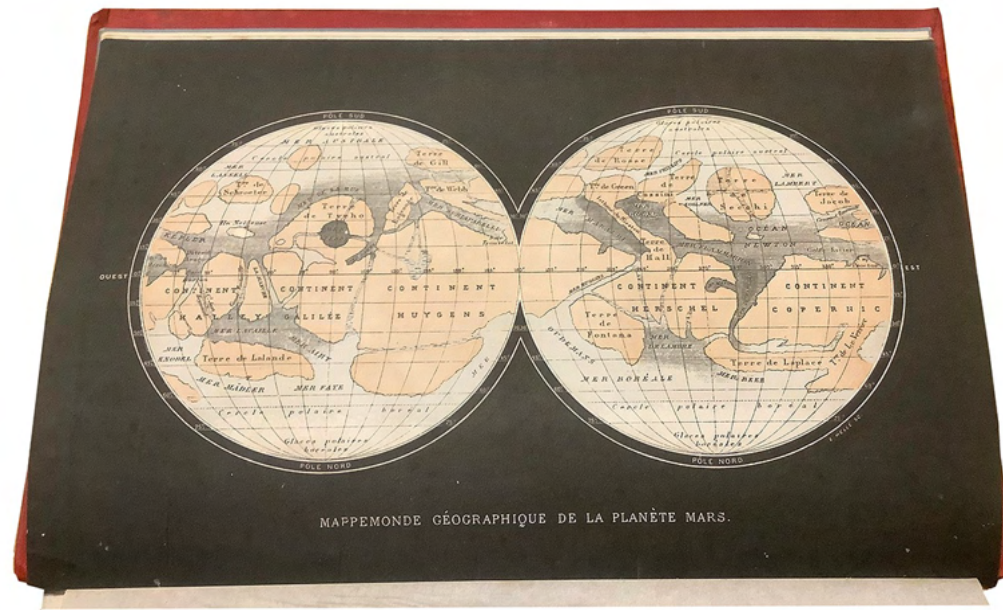
74. GUILLEMIN, Amedee. The Heavens. An Illustrated Handbook of Popular Astronomy. An entirely new and revised edition being the ninth. xi, 436pp. 27 black and white plates, including frontispiece, and numerous in-text illustrations. A very good copy in original dark blue gilt cloth. Some very slight edge rubbing. 8vo. Richard Bentley & Son. 1883. £60.00



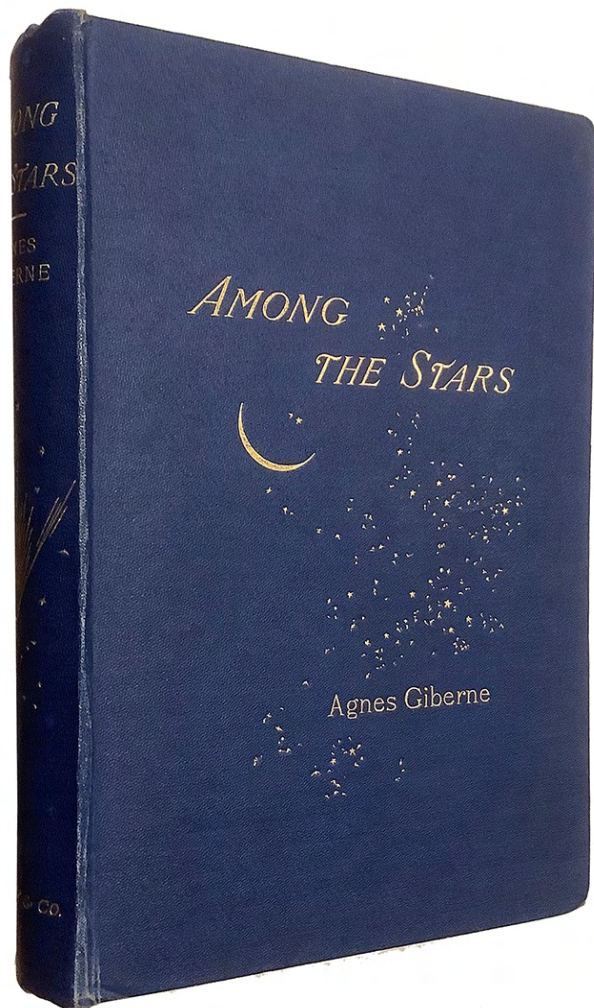
75. SIEMENS, C. William. On the Conservation of Solar Energy. First edition. xx, 111, [1]p., half-title., plate. Presentation copy from the author to Alexander Siemens (his second cousin?). Rather worn original cloth, covers rubbed, tips bumped, inner joints cracked. 8vo. Macmillan and Co. 1883. £40.00

76. BALL, Robert S. A Plane Representation of Certain Dynamical Problems in the Theory of a Rigid Body. [10]pp., pages 29-37. Printed wrappers, front cover detached, and lacks the rear wrapper. Scarce. 8vo. Dublin: Printed at the University Press. 1884. £8.00

~ Sir Robert Stawell Ball FRS (1840-1913), was an Irish astronomer who founded the screw theory. He was Royal Astronomer of Ireland at Dunsink Observatory. He worked for Lord Rosse from 1865 to 1867, and in 1867, he became Professor of Applied Mathematics at the Royal College of Science in Dublin.



77. FLAMMARION, Camille. Les Terres du Ciel. Voyage astronomique sur les autres mondes et description des conditions actuelles de la vie sur les diverses planètes du système solaire; ouvrage illustré de photographies célestes, vues télescopiques, cartes et nombreuses figures. 773pp., coloured frontispiece, numerous plates and text illustrations. Original decorative red cloth rather dull and some age toning to the plates, and occasional foxing. 4to. Paris. C. Marpon. 1884. £65.00



78. GIBERNE, Agnes. *Among the Stars or Wonderful Things in the Sky*. Third thousand. viii, 310, [2]pp adverts., frontispiece, tinted plates. A very good clean copy in bright original dark blue cloth. Scarce.

8vo. Seeley & Co. 1885.

£80.00

~ Agnes Giberne (1845-1939) was born in India, and as a young child moved to England upon her father's retirement from the military, and was educated at home. She began publishing popularizations of science in 1880, and was a member of amateur astronomy organisations, and one of four women on the founding committee of the British Astronomical Association.

79. HARLEY, Timothy. *Lunar Science: Ancient and Modern*. [8], 89pp., adverts., half-title. A good copy in original gilt lettered dark green cloth. Some rubbing, and owner's name stamp on the end-paper, and head of the title-page. Very scarce.

8vo. Swan Sonnenschein. 1886.

£50.00

~ From the Introduction: "As an instinctively religious being, man is constitutionally concerned in the sublime science which, more perhaps than any other department of physics, has enabled him to look "through nature up to nature's God." If "an undevout astronomer is mad," the converse is at least measurably true: unastronomic piety is mad. For if science without devotion be defective, because the spiritual is the necessary inspiration of the material, devotion without science is also defective, because the material is the necessary embodiment of the spiritual. Science without religion is a corpse; religion without science is a ghost."

80. CRAWFORD LIBRARY. Catalogue of the Crawford Library of the Royal Observatory, Edinburgh. 497pp., *half-title*. Original cloth, rubbed and scuffed, and upper joint has some wear. Internally clean. Scarce.
4to. Edinburgh. 1890. £95.00

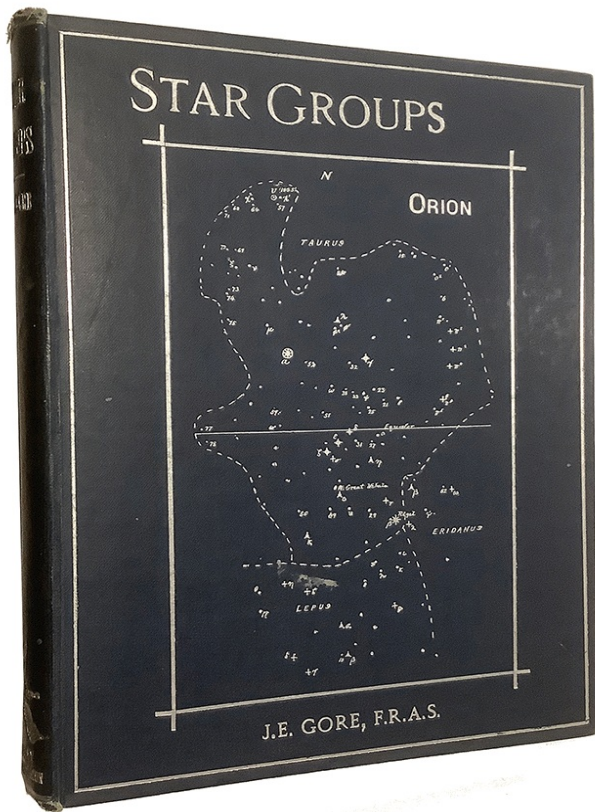
~ Donated by James Ludovic, Earl of Crawford, to the Edinburgh Royal Observatory, the collection of the Library of Dunecht Observatory started with the library of the late Charles Babbage, and was augmented by works on comets, physics and pure mathematics. The catalogue, which describes about 10,000 books on astronomy, is arranged in alphabetical order, chiefly by author followed by the title, number of volumes, number of plates, maps, etc., size, and finally the dimensions. There are also eighteen cross-referenced subject headings. A facsimile edition in 75 copies was published in 2001, as the original was described as “almost impossible to find”, and nearly always in poor condition, with brittle pages. Here, in this copy, the pages are strong and generally clean.

81. DURHAM, William. Astronomy, Sun, Moon, Stars, etc. [8], 133, [1]p. A good copy in original blue cloth.
8vo. Adam & Charles Black. 1890. £15.00

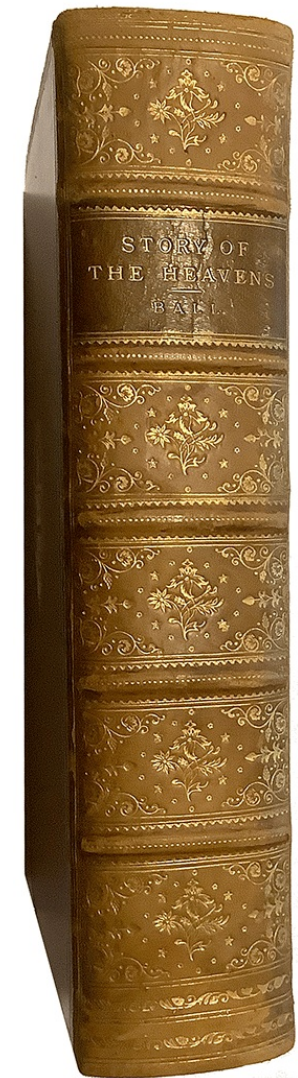
82 MILLS, John. Advanced Physiography. xii, 292pp., *text diagrams*. Original cloth, binding rather shaken and with some wear, a few pencil notes in the text.
8vo. Chapman and Hall. 1890. £12.00

83. THORNTON, John. Advanced Physiography. 342pp., *frontispiece, text illustrations, maps, fold-out colour chart*. Original cloth, covers unevenly faded.
8vo. Longmans. 1890. £6.00

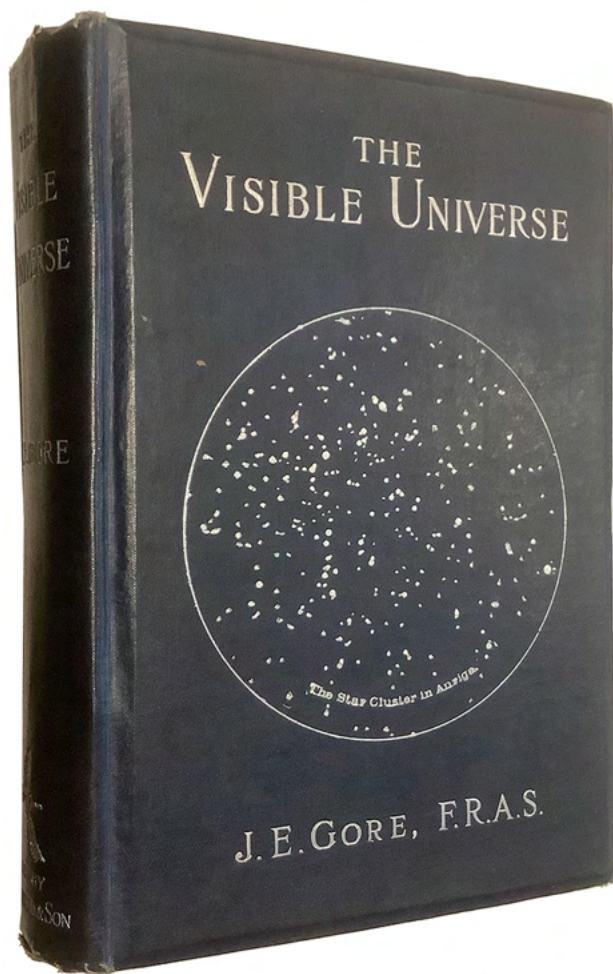
84. BALL, Sir Robert. The Cause of an Ice Age. First edition. xv, 180pp., *illustrations*. Original green cloth, slight wear to the lower rear joint.
8vo. Kegan Paul. 1891. £6.00



85. GORE, J. Ellard. *Star Groups. A Student's Guide to the Constellations.* [8], 30 plates each with leaf of descriptive text, and final index leaf. A very good copy in slightly rubbed original blue and silver cloth. Slight wear to the head of the spine, and corner tips just a little worn. Slight foxing. Scarce. 8vo. Crosby, Lockwood and Son. 1891. £45.00



86. BALL, Sir Robert Stawell. *The Story of the Heavens.* With eighteen coloured plates and numerous illustrations. New and revised edition. xix, [1], 556pp., plates and text illustrations. A handsome copy in full contemporary calf, gilt panelled spine. Gilt crest of the Oxford Diocesan Board of Education to each cover. Rear end-paper marked, and label removed from the inner front board. Inscription dated 1891 on the verso of the end-paper, and stamp of Culham College to a preliminary blank. Some foxing to the end-papers and preliminaries. 8vo. Cassell and Company. 1892. £30.00

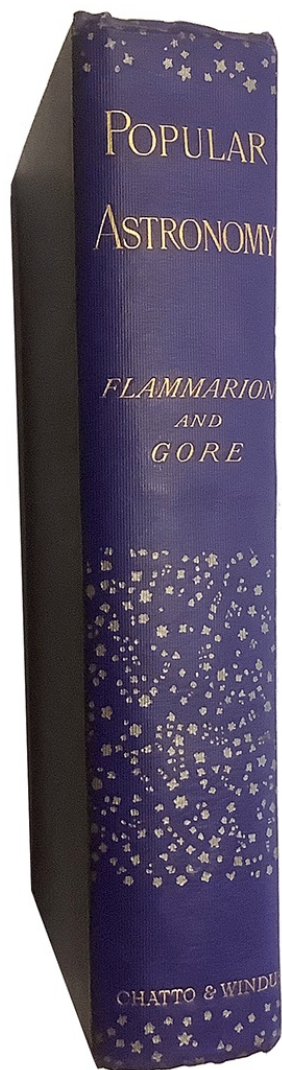


87. GORE, J. Ellard. *The Visible Universe*. Chapters on the origin and construction of the heavens. With stellar photographs and other illustrations. x, 346, 56pp adverts. half-title., 16 plates (7 tinted, 7 folding), 11 figures., tables. A very good copy in original blue cloth, lettered in silver. Very slight rubbing to head and tail of the spine, and corner tips. (illus.)
8vo. Crosby, Lockwood and Son. 1893. £45.00

~ John Ellard Gore (1845–1910) was an Irish amateur astronomer and prolific author, and a founding member of the British Astronomical Association. He was mainly interested in variable stars of which he discovered several, most notably W Cygni in 1884, U Orionis in 1885, and independently discovered Nova.

88. GORE, J. Ellard. *The Visible Universe*. Chapters on the origin and construction of the heavens. With stellar photographs and other illustrations. x, 346, 56pp adverts. half-title., 16 plates (7 tinted, 7 folding), 11 figures., tables. A good copy in original blue cloth, lettered in silver. Very slight rubbing to head and tail of the spine, and corner tips. Owner's name and removed sticker to the half-title.
8vo. Crosby, Lockwood and Son. 1893. £40.00

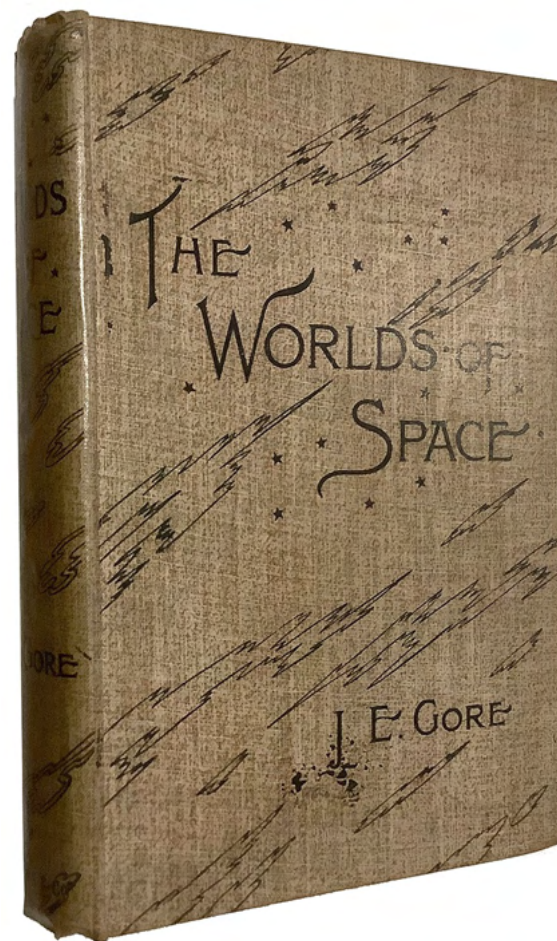
89. BRITISH MUSEUM. Mineral Department. *An Introduction to the Study of Meteorites*. 94, [4]pp. A good copy in slightly rubbed linen backed boards. Scarce.
8vo. Printed by the Order of the Trustees. 1894. £20.00

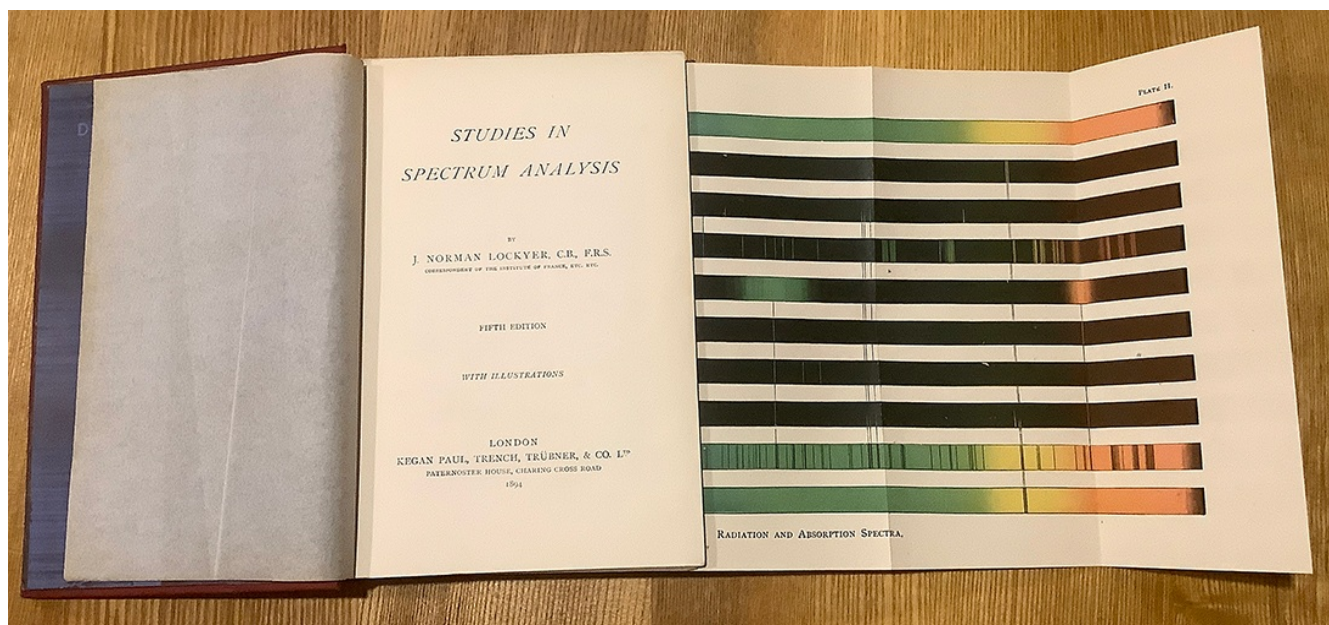


90. FLAMMARION, Camille. Popular Astronomy. A General Description of the Heavens. *xix*, [1], 686pp., 3 plates and 288 illustrations. A very good copy in original dark blue gilt lettered cloth.
8vo. Chatto & Windus. 1894.
£40.00

91. GORE, J.Ellard. The Worlds of Space. A Series of Popular Articles on Astronomical Subjects. *viii*, 338pp., adverts., frontispiece. A very good copy in original patterned cloth
8vo. A.D. Innes and Co. 1894. £60.00

92. GIBERNE, Agnes. The Starry Skies. First lessons on the sun, moon, and stars. First edition. *viii*, 242, [6]pp., frontispiece, and text illustrations. A good copy in slightly rubbed original dark blue gilt lettered cloth. Scarce.
8vo. Seeley and Co. Ltd. 1894. £40.00





93. LOCKYER, J. Norman. *Studies in Spectrum Analysis*. Fifth edition. *xii, 258, 96pp adverts., 8 plates (one folding)*. A very good copy in original blind stamped and gilt lettered red cloth. Some slight rubbing.
8vo. Kegan Paul. 1894. £25.00
94. STRUVE, Hermann. *Beobachtungen des Neptunstrabanten am 30-zölligen Pulkowaer Refractor*. *68pp*. Contemporary plain wrappers, some edge chipping and dustiness.
4to. St Petersburg. 1894. £25.00

~ Struve was the son of the astronomer Otto von Struve and the brother of the astronomer Ludwig von Struve. From 1872 he studied mathematics and astronomy at the Imperial University of Dorpat. After these studies he got a job at the observatory in Pulkovo in 1877. From here he went to Paris, Strasbourg, Berlin and Graz for further studies and completed these studies in 1882 with a doctorate in Dorpat. At the beginning of the following year, Struve was appointed assistant astronomer at Pulkovo. In 1890, he was promoted to chief astronomer. In 1895, he was appointed to the University of Königsberg and in the same year was appointed director of the Königsberg Observatory.

95. ALDIS, Mrs William Steadman. *Consider the Heavens. A Popular Introduction to Astronomy.* 224pp., *frontispiece and text illustrations.*
A good hardback copy in original blue cloth. Scuff mark to the spine, and bookplate.
8vo. The Religious Tract Society. 1895. £40.00

~ Mary Steadman Aldis née Robinson (1838? – 1897) was a science writer and social reformer known for her advocacy on a range of issues during the late 19th century. Born in Kettering, Northamptonshire, to Charlotte and the Reverend William Robinson, she married mathematician William Steadman Aldis in 1863. In 1895, Aldis published *Consider the Heavens*, which in *Ladies in the Laboratory III*, Mary Creese considered "a scientifically informative work, written in a personal conversational style, that draws along the ordinary reader". Creese noted that unlike many other astronomical works at the time, Aldis did not set much store on Schiaparelli's channels on Mars that some claimed were evidence of life, but instead focused on spectroscopic analysis of the planet. Steadman Aldis had ordered astronomy slides from California and taken charge of a donated telescope, which were presumably useful to Mary in her work.

96. ALDIS, Mrs William Steadman. *Consider the Heavens. A Popular Introduction to Astronomy.* 224pp., *frontispiece and text illustrations.*
A good hardback copy in original cloth. Owner's name dated 1907 on the front end paper. Scarce.
8vo. The Religious Tract Society. 1895. £40.00

97. BALL, Robert Stawell. *Star-Land. Being Talks with Young People about the Wonders of the Heavens.* Twenty-second thousand. xii, 376pp.,
adverts., *frontispiece and text illustrations.* Original dark blue gilt lettered cloth which has some minor wear.
8vo. Cassell and Company. 1895. £8.00

98. CHAMBERS, George F. *The Story of the Solar System.* 202pp., *advert., frontispiece, text illustrations.* Original cloth, rubbed, but in sound
condition. Owner's bookplate.
small 8vo. George Newnes Ltd. 1895. £10.00

99. GIBERNE, Agnes. *Radiant Suns. A Sequel to Sun, Moon and Stars.* With a preface by Mrs Huggins. First edition. xiv, 328, [8]pp *adverts.,*
frontispiece and 15 illustrations. Original gilt lettered cloth. Covers a little rubbed and slightly marked. Owners names on the front-end-paper.
8vo. Seeley and Co Ltd. 1895. £50.00

100. CHAMBERS, George F. The Story of the Stars. Second edition. 192pp., *frontispiece and text illustrations*. A good copy in original decorative blue cloth, some slight foxing.
small 8vo. George Newnes Ltd. 1896. £18.00

101. DERBY, Orville A. Estudo Sobre O Meteorito de Bendego. [Extract]. [3], 90-184pp. Original wrappers, front cover detached, edge chipped and dusty, and with stamp of I.C.S.T. Geology Department. Inscribed from the author at the head of the front wrapper. Scarce.
4to. Rio de Janeiro. Imprensa Nacional. 1896. £30.00

~ Orville Adalbert Derby (1851-1915), was an American geologist who worked in Brazil. He was a member and director of the Geographic and Geological Commission of São Paulo from 1886 to 1904. This commission later originated the Astronomical and Geophysical Institute of the University of São Paulo. The Bendegó meteorite was found in 1784 by Domingos da Motta Botelho, who grazed cattle on a farm near the present town of Monte Santo, Bahia. At the time of its finding, it was the second largest meteorite in the world. News of the discovery quickly spread. In 1785, governor D. Rodrigues Menezes arranged for it to be transported to Salvador, however, the meteorite's excessive weight made transportation difficult. The cart it was on ran out of control down a hill and the meteorite fell into a dry stream bed, 180 metres away from the spot where it was originally found. It remained there until 1888, when it was recovered and brought to the National Museum.

102. RAMBOSSON, Jean Pierre. Astronomy. A new edition, with 10 coloured plates and 63 woodcuts. *xiii*, [1], 385pp, *adverts*. A good copy in original dark blue gilt lettered cloth, spine a trifle faded. Scarce.
8vo. Chatto and Windus. 1897. £50.00

~ First published in 1875.

103. [COOKE, Thomas]. Provisional Specification. Improvements in or relating to Domes for Astronomical Observatories of the Like. 3, [1]p., *folding plate*. Disbound
4to. H.M.S.O. 1898. £10.00

104. MONCK, W.H.S. An Introduction to Stellar Astronomy. First edition. 198pp., 5 plates. A good copy in original dark blue gilt lettered cloth. Old damp fading to the lower edge of the rear board. Scarce.
8vo. Hutchinson and Co. 1899. £40.00

The Twentieth Century:

105. ADAMS, William Henry. Complete Specification. An improved apparatus for displaying astronomical phenomena of the Solar System. *6pp., folding plate.*
4to. H.M.S.O. 1900. £10.00

106. RAMBAUT, Arthur A. Observations of the New Star in Perseus made at the Radcliffe Observatory, Oxford. (Monthly Notices of R.A.S., March, 1901). Offprint. *8pp.* Printed wrappers.
8vo. Spottiswoode & Co Ltd. 1901. £6.00

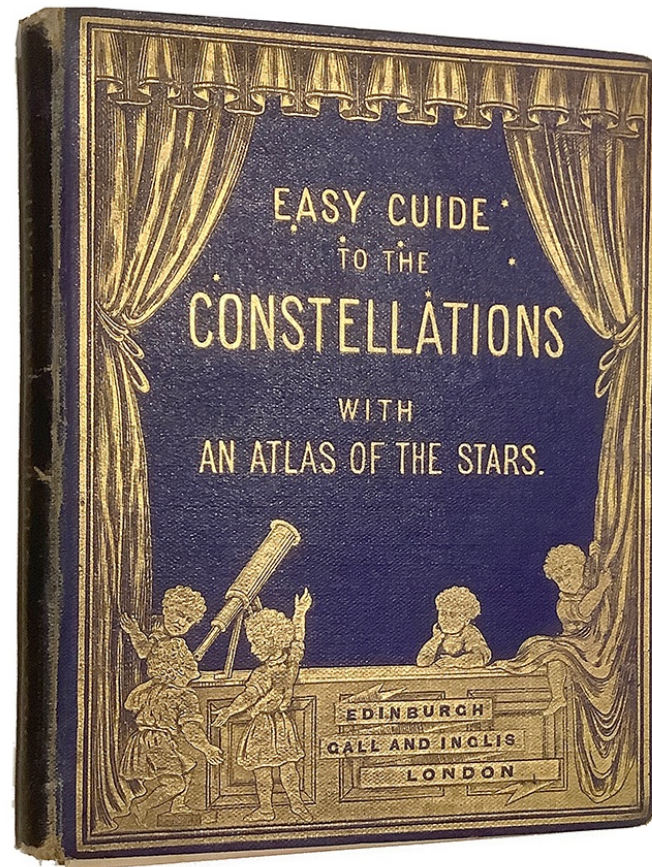
~ Arthur Alcock Rambaut (1859-1923), was an Irish astronomer, who in 1882 became assistant to Robert S. Ball in Dunsink Observatory and took over as director from 1892 to 1897. When Ball moved to Cambridge, Rambaut took over as Andrews Professor of Astronomy and Royal Astronomer of Ireland. On the death of E. J. Stone in 1897, Rambaut became Radcliffe Observer in the University of Oxford. He remained in Oxford until his death.

107. ROYAL OBSERVATORY, Edinburgh. Annals. Volumes I-III. Edited by Ralph Copeland, *198pp; 104pp; 56pp.* Three volumes. Near fine copies in original dark red gilt lettered cloth. Scarce.
4to. Glasgow. James Hedderwick. 1902-1910. £150.00

108. FLAMMARION, Camille. Astronomy for Amateurs. *365pp., plates.* A very good copy in gilt lettered blue cloth.
small 8vo. Thomas Nelson and Sons. [1903]. £8.00

109. NEWCOMB, Simon. Astronomy for Everybody. First edition. *xv, [1], 341, [3]pp adverts., frontispiece and text illustrations.* Original gilt lettered blue cloth. Binding is rubbed with some wear to the upper joint, end-papers foxed and inner joints cracked. Small tear to the edge of the frontispiece, and front-end-paper creased.
8vo. Isbister and Company Limited. 1903. £6.00

~ Simon Newcomb (1835-1909), was a Canadian-born mathematician whose work on mathematical astronomy was very important. He also published popular works on astronomy.

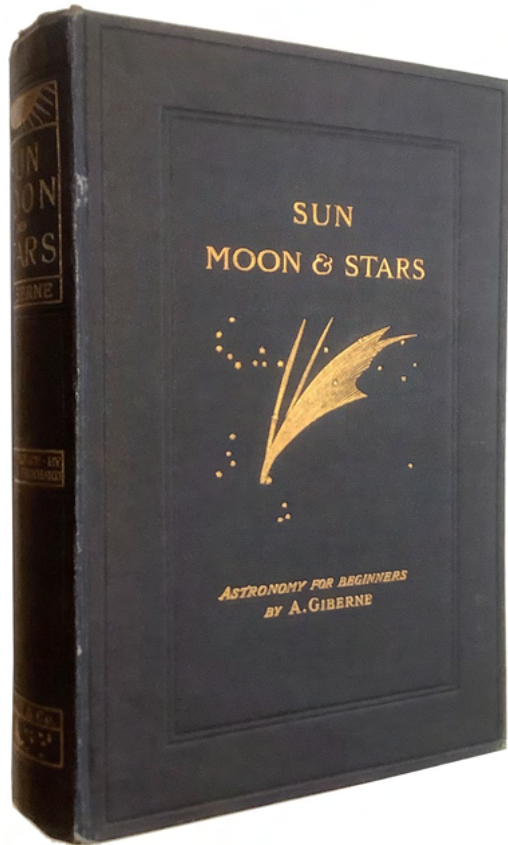


110. GALL, James. *The Easy Guide to the Constellations with a miniature Atlas of the Stars*. 62pp., 30 plates. A good copy in original decorative blue gilt cloth, spine worn at the head and tail, and corner tips rubbed.
Small 8vo. Gall and Inglis. 1904. £45.00

~ James Gall (1808-1895), was a cartographer, publisher, sculptor, astronomer and author. In cartography he gives his name to three different map projections: Gall stereographic; Gall isographic; and Gall orthographic (Gall–Peters projection).

111. JAHRBUCH. Berliner Astronomisches Jahrbuch für 1906 . mit angaben für die oppositionen der planeten (1) - (485) für 1904. 547, [1], [8]pp. Contemporary cloth backed boards, covers rubbed, paper spine labels. Berlin library stamps to the title-page. 8vo. Berlin. 1904. £20.00

112. CLERKE, Agnes M. Modern Cosmogonies. First edition. vi, [2], 287, [1]p., *half-title*. Original cloth, which has several small marks. Scarce, and well reviewed on publication. 8vo. Adam and Charles Black. 1905. £45.00



~ Agnes Mary Clerke (1842-1907), was an Irish astronomer and writer, mainly in the field of astronomy. Following in her father's footsteps - while studying classics, he had also taken courses in astronomy - she developed an interest in astronomy from an early age. Using her father's 4-inch telescope in her observations, she had begun to write a history of astronomy at the age of 15. In the autumn of 1890, Clerke and her brother Aubrey were founding members of the British Astronomical Association, and in 1893, she was awarded the Actonian Prize of 100 guineas by the Royal Institution. As a member of the British Astronomical Association she attended its meetings regularly, as well as those of the Royal Astronomical Society. In 1903, with Margaret Lindsay Huggins, she was elected an honorary member of the Royal Astronomical Society, a rank previously held only by three other women, Caroline Herschel and Mary Somerville (in 1835), and Anne Sheepshanks (in 1862).

113. GIBERNE, Agnes. Sun, Moon, and Stars. Astronomy for Beginners. Twenty-seventh thousand with additions. xvi, 329, [17]pp *adverts.*, *frontispiece and tinted plates*. A very good copy in original dark blue gilt decorated cloth. Prize label on the inner front board. 8vo. Seeley and Co Ltd. 1905. £35.00

114. WHITE, James. *Celestial Mirrors; or, principal facts about the stars.* 137pp. Signed by the author on the drnt-end-paper. Original cloth, cover have some slight rubbing, marginal pencil notes, and some age toning to the paper. Scarce.
8vo. Belfast: William Mullan & Son. 1905. £25.00

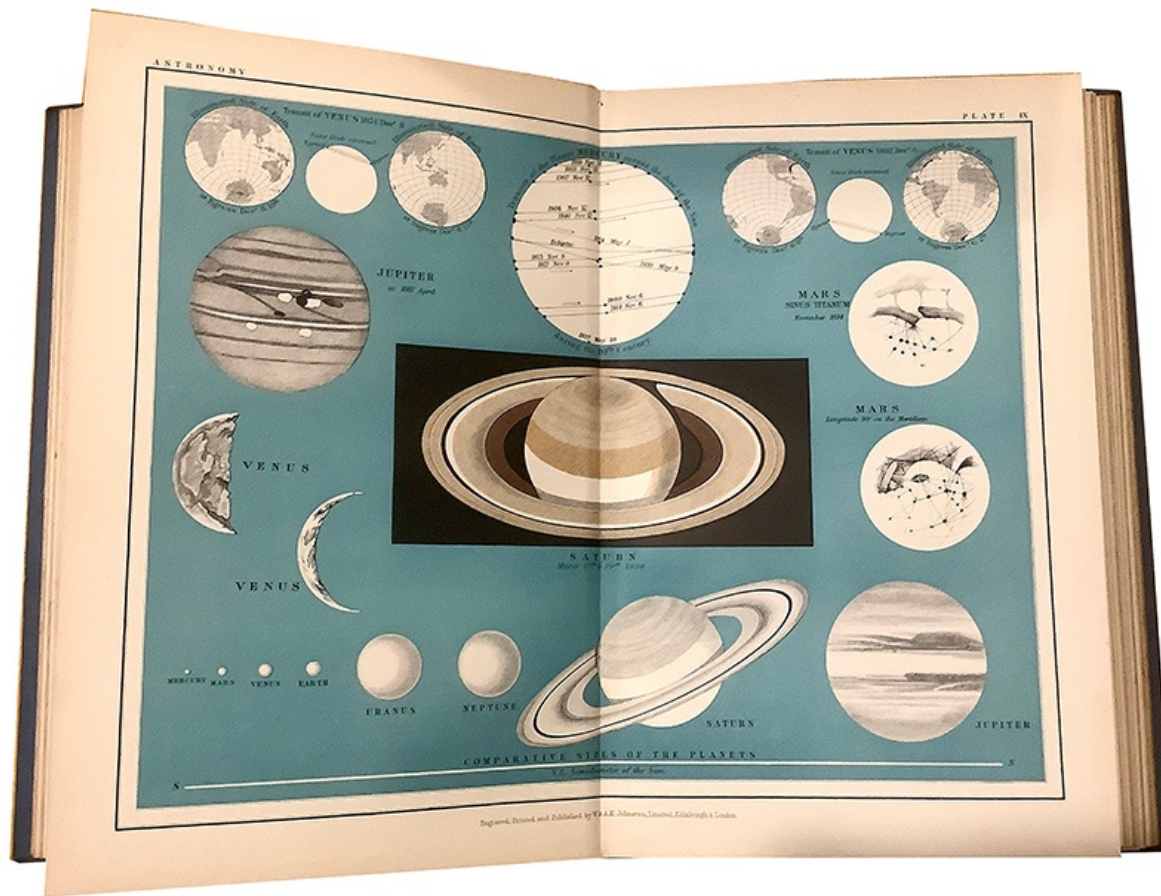
115. BALL, Sir Robert. *The Story of the Sun.* viii, 376pp., 11 plates and numerous illustrations. Contemporary half leather, joints and extremities rubbed, and some slight foxing.
8vo. Cassell and Company. 1906. £20.00

116. DESLANDRES, H. *Histoire des Idees et des Recherches sur le Soleil.* vii, [1], 145pp. A partially unopened copy in original wrappers. Some wear to the backstrip, stamp of Meteorological Office 1926 on the upper cover, and stamped 'avec les compliments de l'auteur.'
8vo. Paris. 1906. £20.00

~ Henri Alexandre Deslandres (1853-1948), was a French astronomer, director of the Meudon and Paris Observatories, who carried out intensive studies on the behaviour of the atmosphere of the Sun.

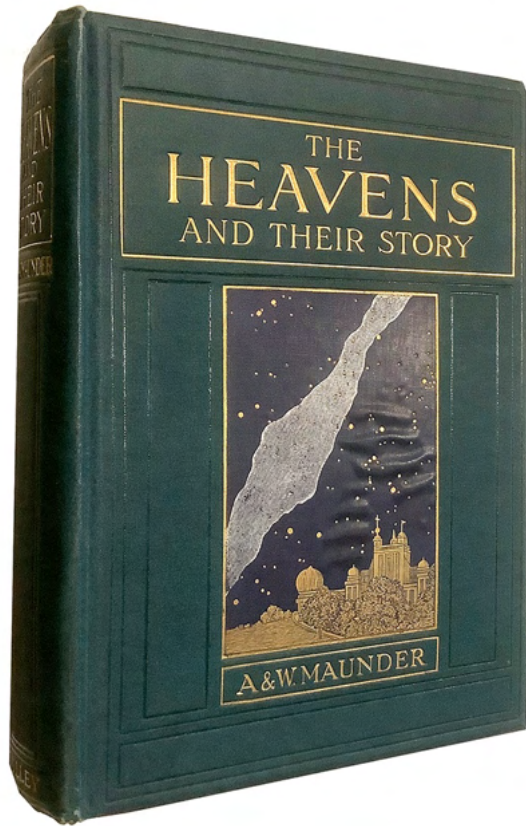
117. GORE, J. Ellard. *Astronomical Essays, Historical and Descriptive.* ix, 342pp; 6 plates. Gilt lettered original cloth. Covers unevenly marked, but a sound copy.
8vo. Chatto and Windus. 1907. £25.00

~ The first edition by the Irish amateur astronomer John Ellard Gore, a founding member of the British Astronomical Association. The essays include 'a possible celestial catastrophe', Ptolemy's description of the Milky Way, the evolution of astronomical instruments, and the naming of stars.



118. HEATH, Thomas. The Twentieth Century Atlas of Popular Astronomy Comprising in Twenty-two Plates a Complete Series of Illustrations of the Heavenly Bodies. Second edition. [8], 134pp., coloured frontispiece and 21 double page coloured plates on thick paper. A good copy in original blue gilt cloth. Some rubbing, minor foxing to the text pages, plates clean. Scarce. 4to. W. & A.K. Johnson. 1908.

£60.00

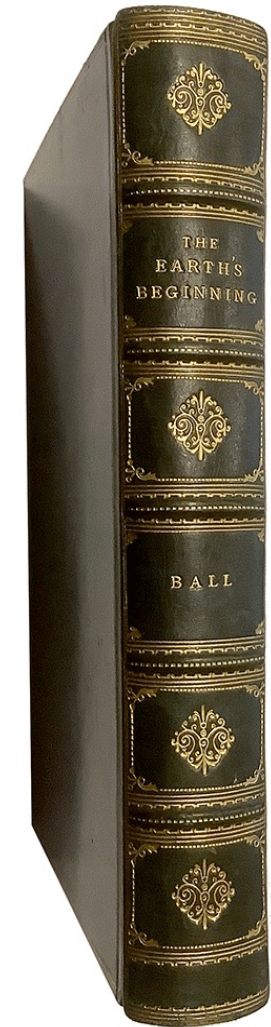


119. MAUNDER, Annie S.D. *The Heavens and their Story*. With eight coloured plates, and thirty-eight astronomical photographs, and fifty-one other illustrations. A very good copy in original decorative blue cloth, top-edge-gilt. Edge chips to the front-end-paper. Scarce.

8vo. Robert Culley. [1908].

£70.00

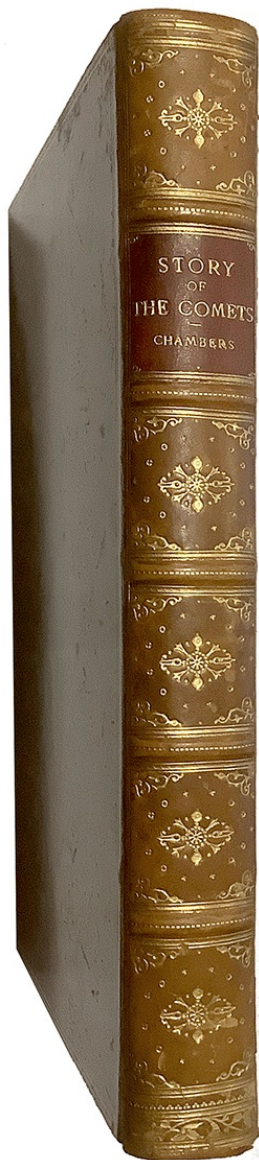
~ Annie Scott Dill Maunder (née Russell) FRAS (1868-1947) was an Irish-British astronomer, who recorded the first evidence of the movement of sunspot emergence from the poles toward the equator over the Sun's 11-year cycle. She was one of the leading astronomers of her time, but because of her gender, her contribution was often underplayed at the time. In 1916 she was elected to the Royal Astronomical Society, 21 years after being refused membership because of her gender.



120. BALL, Sir Robert S. *The Earth's Beginning* New edition. *xvi, 384pp., 4 colour plates and 60 text illustrations*. A very good copy in full dark blue calf prize binding, with gilt panelled spine. Gilt crest of Kelly College, Tavistock, and prize book-plate. Some slight foxing.

8vo. Cassell and Company. 1909.

£40.00



121. CHAMBERS, George F. *The Story of the Comets*. xiii, [3], 256pp., frontispiece, 26 plates, and text illustrations. A very good copy bound in full contemporary polished tree calf, gilt panelled spine with red morocco label. All-edges-gilt. Gilt crest of the Governors of the Worshipful Company of Brewers on the upper board, and a presentation book-plate from Owen's School, Islington dated 1910.

8vo. Oxford: at the Clarendon Press. 1909.

£60.00

~ George Frederick Chambers (1841-1915), was an English barrister, amateur astronomer and author. His most popular books were a series of introductions to astronomy, with volumes called *The Story of the Solar System*, *The Story of the Stars*, *The Story of Eclipses*, and *The Story of Comets*. These served to educate general readers about science.

122. DOLMAGE, Cecil G. *Astronomy of To-Day*. A popular introduction in non-technical language. Second edition. 363pp., adverts., 24 plates and 20 diagrams. A good copy in original gilt lettered red cloth, spine a trifle faded, and slight foxing.

8vo. Seeley and Co. Ltd. 1909.

£15.00

123. PROCTOR, Richard A. *Other Worlds than Ours*. The plurality of worlds studied under the light of scientific researches. New impression. xii, [2], 318pp., frontispiece, plates and text illustrations. A very good copy in full contemporary red gilt calf prize binding, with gilt crest 'The Downs' on the upper board. Marbled edges and end-papers.

8vo. Longmans, Green and Co. 1909.

£60.00



124. RUDAUX, L. How to Study the Stars; astronomy with small telescopes and the naked eye and notes on celestial photography, by L. Rudaux. Translated by A. H. Keane. 360pp., 79 b/w illustrations. Original gilt lettered cloth, covers rather rubbed, but sound.

8vo. T. Fisher Unwin. 1909.

£20.00

~ Lucien Rudaux (1874-1947), was a French artist and astronomer, who created famous paintings of space themes in the 1920s and 1930s. The Rudaux crater on Mars and the Lucien Rudaux Memorial Award are named in his honour.

125. BALL, Robert S. The Story of the Heavens. With twenty-four coloured plates and numerous illustrations. xii, 568pp. A good hardback copy in gilt lettered dark blue cloth. Some slight rubbing.

8vo. Cassell and Co. c.1910.

£15.00

126. HAWKS, Ellison. Stars Shown to the Children. xii, 119, [1]p., colour frontispiece, plates (some in colour). A very good hardback copy in original blue gilt cloth, top-edge-gilt. Owner's name on the end-paper. Scarce.

small 8vo. T.C. & E.C. Jack. [1910].

£15.00

127. BALL, Sir Robert Stawell. The Story of the Heavens. With eighteen coloured plates and numerous illustrations. xii, 568pp., plates and text illustrations. A handsome copy in full contemporary dark blue calf, gilt panelled spine. Gilt crest of Dulwich College to the upper board, and prize book-plate. Some slight foxing.

8vo. Cassell and Company. 1911.

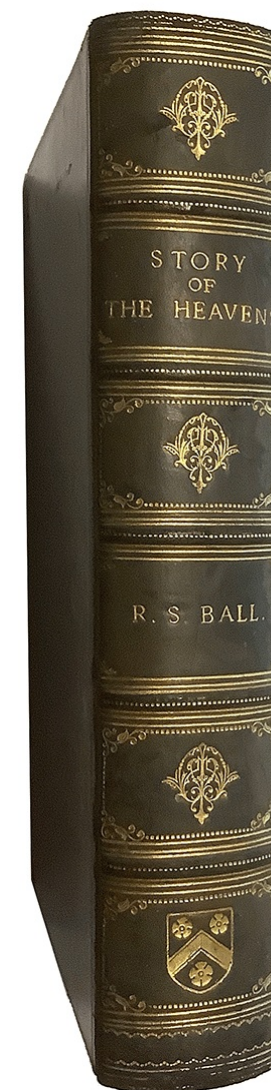
£40.00

128. RUSSELL, Henry Norris. Determinations of Stellar Parallax. [6], 142pp. A good copy in original gilt lettered dark blue calf. Very scarce.

4to. Carnegie Institution of Washington. 1911.

£50.00

~ Henry Norris Russell (1877-1957), demonstrated how a star's brightness is related to its spectral type in the so called Hertzsprung–Russell diagram, invented a method to compute the densities of binary stars, and shaped the development of contemporary astronomy by merging astronomy with astrophysics.





129. MAUNDER, E. Walter. *The Science of the Stars*. 95pp. A very good hardback copy.

small 8vo. T.C. & E.C. Jack. [1912].

£3.00

130. ELGIE, Joseph H. *The Stars by Night*. Being the Journal of a Star Gazer. xv, [1], 247pp., adverts., moveable star chart. A good copy in original linen cloth, slightly marked. Scarce. (illus).

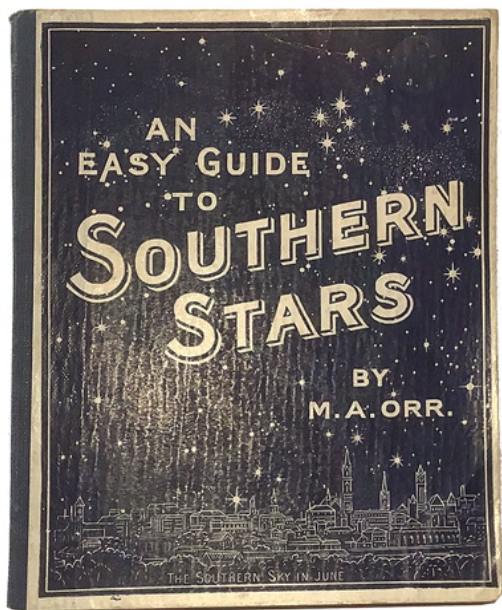
8vo. C. Arthur Pearson. 1914. £40.00

131. BAXANDALL, Frank E. Solar Physics Committee. I. Comparison of the Spectra of Rigelian, Crucian and Alnitamian Stars. II. A Discussion of the Line Spectrum of Orionis. III. The Spectrum of Cassiopeiae. Under the direction of Sir Norman Lockyer. 41, [1]p., 3 plates. Slight worming to edge of the plates. Original linen backed boards which are rather dusted and with minor edge wear.

4to. HMSO. 1914.

£30.00

~ Frank Baxandall was an astronomer closely involved with the photographing and study of stellar spectra.. His higher education was received in London at the Royal College of Science where in about 1883 he completed a degree, to become an Associate of the Royal College of Science. In 1888 he joined Solar Physics Observatory under Sir Norman Lockyer.



132. ORR, Mary Acworth. (Mrs John Evershed). *Southern Stars: a guide to the constellations visible in the southern hemisphere*. Fourth edition. 12, 31 [i.e. 60]pp., *star charts*. A very good copy in original linen backed card covers. Scarce.
small 8vo. Gall and Inglis. [1915]. £40.00

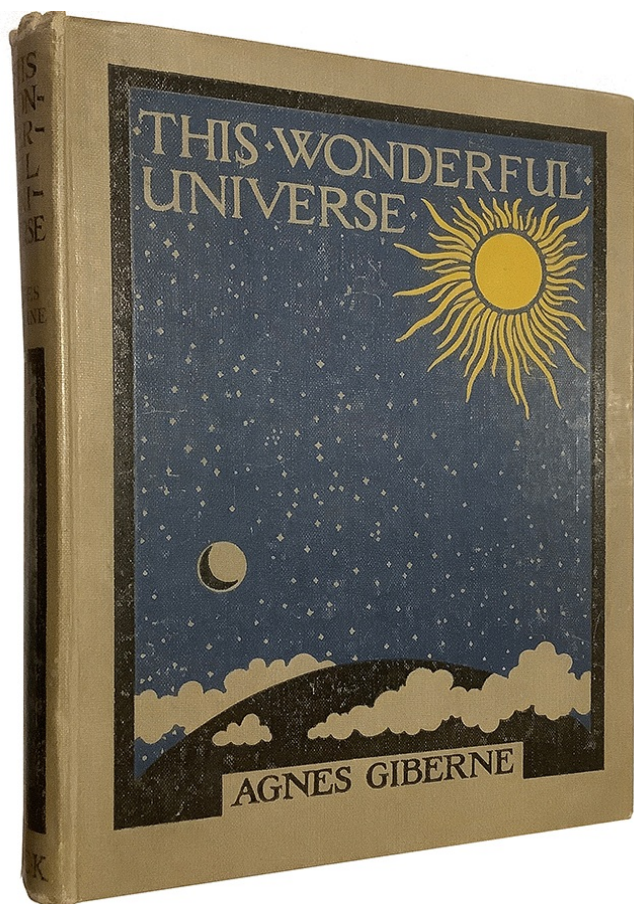
~ Mary Acworth Evershed (1867-1949), was a British astronomer and scholar. In 1890, Orr moved with her family to Australia. She found there was no good guide to the southern stars, so wrote *An Easy Guide to the Southern Stars*, with the encouragement of John Tebbutt, the leading astronomer in Australia at the time. In 1895, she met fellow British astronomer John Evershed when they both participated in an expedition to view a total solar eclipse of 9 August 1896 in Norway. Orr subsequently joined the British Astronomical Association. At this time, the BAA enjoyed the membership of intellectual women barred from the (then) all-male Royal Astronomical Society. During this time, she became friends with Agnes Clerke and Annie Scott Dill Maunder, both notable for their contributions to historical astronomy.

133. MEYER, M. Wilh. *Sonne und Sterne*. 106pp, *adverts., text illustrations*. A very good copy in original green with large coloured paper onlay on the upper cover.
8vo. Stuttgart. c1915. £20.00

134. GIBSON, Charles R. *The Stars and their Mysteries*. 248pp., *adverts., 19 illustrations and diagrams*. Original pictorial cloth, rubbed. Foxing to the edge of the book block, owner's name and inscription on the front-end-paper.
8vo. Seeley, Service & Co Limited. 1916. £10.00



135. MACPHERSON, Hector. Practical Astronomy with the Unaided Eye. 94pp. A good copy in original green cloth. Owners name dated 1917 on the end-paper.
small 8vo. T.C. & E.C. Jack. [c1917]. £3.00
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137. MACPHERSON, Hector. Practical Astronomy with the Unaided Eye. Revised edition. 94pp. A good copy in original red cloth.
small 8vo. T.C. & E.C. Jack. [1919]. £3.00
138. DEMOZAY, Lucien. Relations Remarquables entre les Elements du Systeme Solaire. 140, [2]pp., *diagrams*. Original printed wrappers, some wear to head and tail of the backstrip.
8vo. Paris. Gauthier-Villars. 1919. £12.00
139. BALL, Sir Robert S. In the High Heavens. 383, [1]p., *numerous illustrations*. A very good clean copy in original gilt lettered green cloth. Prize book-plate.
8vo. Isaac Pitman. 1920. £15.00



140 GIBERNE, Agnes. *This Wonderful Universe*. A little book about suns and worlds, moons and meteors, comets and nebulae. New illustrated edition, completely rewritten. ix, [1], 182pp., colour and black and white illustrations. A very good copy in slightly rubbed original pictorial cloth. Scarce.
8vo. SPCK. 1920.

£30.00

141. ARRHENIUS, Svante. *Der Lebenslauf der Planeten*. vii, 166pp., 2 folding plates, text diagrams. Original linen backed boards. Endpapers and edges of the book block foxed. Some wear the board corner tips.
8o. Leipzig. Akademische Verlagsgesellschaft. 1921.

£20.00

~ Svante August Arrhenius (1859-1927), was a Swedish scientist. Originally a physicist, but often referred to as a chemist, Arrhenius was one of the founders of the science of physical chemistry. He received the Nobel Prize for Chemistry in 1903, becoming the first Swedish Nobel laureate. In 1905, he became the director of the Nobel Institute, where he remained until his death.

142. FOUCHE, M. *Le Ciel*, ave 72 Gravures. 192pp., illustrations. A good copy in contemporary cloth backed marbled boards, red label. Some toning to the paper.
8vo. Librairie Hachette. 1921.

£10.00

143. HARTMANN, J. *Astronomi*. Unter redaktion von J. Hartmann. vii, [1], 639, [1], [advert 4]pp. 44 figures., index., 8 plates. Original half cloth, marbled boards. Rear joint worn and cracked, and some wear also the to corner tips.
8vo. B. G. Teubner, 1921., Leipzig & Berlin:, 1921.

£20.00

~ Johannes Franz Hartmann (1865-1936), was a German physicist and astronomer, who made significant contributions to the field of stellar spectroscopy, particularly in the area of radial velocities and the discovery of interstellar absorption lines.

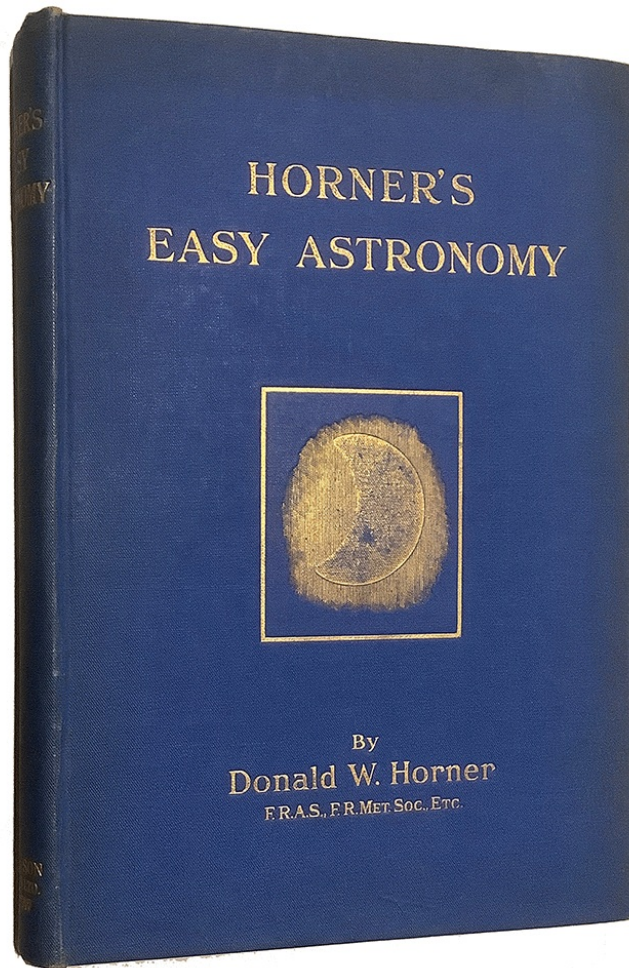
144. ROBB, Alfred A. *The Absolute Relations of Time and Space*. First edition. 80pp. A good copy in original cloth backed boards which have some marks and a little rippling. Scarce.
8vo. Cambridge. 1921. £40.00

~ Alfred Arthur Robb (1873-1936), was a Northern Irish physicist. He is known for his four books on special relativity (1911, 1914, 1921, 1936) where he gave a spacetime derivation of the theory in an axiomatic-geometric way. Robb therefore was sometimes called the "Euclid of relativity".

145. BARLEY, Alfred H. *The Drayson Problem*. His important astronomical discovery. 48pp. Original printed wrappers, with rust marks from the staples and small rust hole to the upper wrapper.
8vo. Exeter: Wm. Pollard. 1922. £10.00

~ Alfred Wilks Drayson (1827–1901) was an English army officer, writer and astronomer. He was a personal friend of Arthur Conan Doyle, who dedicated to him the short story collection *The Captain of the Polestar*. He published scientific theories, not accepted by later authors.

His 'problem' had its origin solely in the somewhat loose language of certain text-books which described the motion of the pole of the equator as circular, the pole of the ecliptic being in the centre. This description would be correct if only the solar and lunar precessions were concerned, but planetary perturbations cause the plane of the ecliptic (and hence its pole) to shift, thus causing a variation in the radius of the circle. Drayson, without carefully studying the evidence for the shifting ecliptic, asserted that it was really fixed among the stars, and that the centre of the north pole's motion was 6° away from the ecliptic pole, thus bringing about a very large change in the obliquity, which he supposed to be near its minimum at present. It would reach 350° at its maximum, when Drayson considered an Ice-age would occur.



146. HORNER, Donald W. *Horner's Easy Astronomy*. xv, [1], 140pp., plates and text figures. A very good copy in original blue gilt cloth. Some slight rubbing.
8vo. James Brown & Son. 1922. £25.00

147. MEYER, M.W. *Der Mond*. 92, [4]pp., text illustrations. Original boards, head and tail of spine worn, covers marked and some foxing.
8vo. Stuttgart, Kosmos, Gesellschat der Naturfreunde - Franckh., 1922. £8.00

~ Max William Meyer, German astronomer and naturalist (1853–1910).

148. EVANS, J. Silas. *Seryddiaeth a Seryddwyr*. 334pp., frontispiece and illustrations. A good copy in slightly marked original dark blue cloth.
8vo, Caerdydd. William Lewis. 1923. £20.00

149. PRIOR, G.T. *Catalogue of Meteorites*. 196pp. A good ex-library copy in original blue cloth. Withdrawn stamps from the British Museum.
8vo. British Museum. 1923. £10.00

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8vo. Charles Griffin & Company, Ltd. 1923. £6.00

151. METEORITES. A Guide to the Collection of Meteorites with an alphabetical list of those represented. 44pp. A very good copy in original wrappers. Scarce.
8vo. The British Museum. 1926. £15.00
152. BUSCHICK, R. Sternenkunde und Erdgeschichte. 383, [1]p., 32 plates. A good hardback copy, spine a little rubbed.
8vo. Leipzig, Georg Dollheimer, 1927. £6.00
153. DOIG, Peter. An Outline of Stellar Astronomy. 183, [1]p., frontispiece. A good hardback copy.
8vo. The Draughtsman Publishing Co., Ltd. 1927. £12.00
154. EDDINGTON, A.S. Stars and Atoms. First edition. 127pp., frontispiece, plates. A very good hardback copy in dust-wrapper which is torn with loss at the head of the spine.
8vo. Oxford. 1927. £25.00

viewed by Virginia Woolf

155. SOLAR ECLIPSE. Souvenir of the Solar Eclipse, June 2th, 1927, Richmond (Yorks). 16pp., folding plan. A very good copy in original wrappers. Scarce.
8vo. Burrow, Cheltenham. 1927. £20.00

~ “SUDDENLY the light went out,” wrote Virginia Woolf in her diary in 1927 when staying in Richmond. “We had fallen. It was extinct. There was no colour. The earth was dead.” The novelist was one of tens of thousands of people who descended on Richmond in the early hours of June 29, 1927, when town was on “the line of totality” or, as an article in the new Richmond Review 2023 is headlined, at “the hub of the Eclipse universe”.

156. JEANS, Sir James. The Universe Around Us. Second printing. *x*, 352pp., *plates*. A sond copy in slighrly faded original cloth. 8vo. Cambridge. 1929. £5.00
157. SULLIVAN, J.W.N. Present-Day Astronomy. 143pp., *plates*. A very good hardback copy. small 8vo. George Newnes. [1930]. £6.00
158. MAETERLINCK, Maurice. The Magic of the Stars. Translated by Alfred Suto. First English edition. 155pp. Original green cloth, spine faded and some light foxing. 8vo. George Allen & Unwin. 1930. £10.00
159. JEANS, Sir James. The Stars in their Courses. Third printing. 188pp., 2 *folding maps*, and *other plate*. A good copy in original blue cloth, spine a little sunned. 8vo. Cambridge. 1931. £3.00
160. JEANS, J.H. Eos or the Wider Aspects of Cosmogony. Sixth impression. 88pp., *frontispiece*. A good hardback copy. small 8vo. Kegan Paul. 1931. £4.00
161. LUM, Peter. The Stars in our Heaven. Myths and Fables. Drawings by Anne and Marie Jauss. 243, [1]p., *plates*. A good hardback copy in edge worn dust-wrapper, but rather foxed throughout. 8vo. Thames and Hudson. [1932]. £10.00
162. EDDINGTON, Arthur. The Expanding Universe. Second impression. 128pp., *plates*. A good hardback copy. 8vo. Cambridge. 1933. £5.00

163. JEANS, James. Through Space and Time. First edition. *xiv, 224pp., plates*. A good hardback copy, spine faded, and prize label on the inner front board.

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4to. Gall and Inglis. [1934].

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large 8vo. Blackie and Son Limited. 1935.

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£8.00

167. HUMBERT, Pierre. De Mercure a Pluton. Planetes et Satellites. *181pp., plates*. A good copy in original wrappers. Some faint old waterstaining to the upper margins.

8vo. Paris. Albin Michel. 1937.

£8.00

~ Pierre Humbert (1891-1953), was a French mathematician who worked on the theory of elliptic functions and introduced Humbert polynomials.

168. PROCTOR, Mary. Comets. Their Nature, Origin, and Place in the Science of Astronomy. First edition. 204pp., *frontispiece*. A sound ex-library copy in original blue cloth. Covers rubbed, bookplate and small paste mark at the foot of the spine. Scarce.
8vo. The Technical Press Ltd. 1937. £10.00

~ Mary Proctor (1862-1957), was a British-American populariser of astronomy. Her articles and books were mostly aimed for young readers, which earned her the nickname "the children's astronomer."

169. LOW, A.M. What New Wonders! The story of the Pasedena Telescope. First edition. 107pp., *colour frontispiece, plates*. A good hardback copy, but some foxing. Scarce.
8vo. Herbert Joseph. [1938]. £10.00

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8vo. Berlin. Verlag von Julius Springer. 1939. £4.00

171. PROCTOR, Mary. Everyman's Astronomy. First edition. [8], 245, [1]p., *half-title., frontispiece, plates*. A very good hardback copy.
8vo. The Scientific Book Club. 1939. £8.00

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8vo. Cambridge. W.Heffer & Sons Ltd. 1942. £10.00

173. BROWN'S STAR ATLAS, showing all the bright stars with full instructions how to find and use them for navigational purposes and Board of Trade examinations. 43, [1]p., *adverts., 6 star charts*. A good copy in original linen backed boards. Some slight wear and dustiness to the covers.
4to. Glasgow: Brown, Son & Ferguson. 1943. £10.00

174. SIGNPOST TO THE STARS. 32pp., *tinted illustrations*. A very good copy in original wrappers.
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175. MACPHERSON, Hector. Guide to the Stars. 137pp., 6 *plates, illustrations*. A good hardback copy.
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176. STARS. An Illustrated Guide to the Stars. 4pp., 2 *folding star charts*. A good copy in original wrappers.
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177. WHIPPLE, Fred L. Earth, Moon and Planets. 293pp., *frontispiece, plates, star chart in rear pocket*. Hardback copy, some rubbing, especially to the spine.
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178. ARMITAGE, Angus. Sun, Stand Thou Still The life and work of Copernicus the astronomer. First edition. x, 210pp., *frontispiece*. A very good hardback copy.
8vo. Sigma Books. 1947. £6.00
179. HOYLE, Fred. The Nature of the Universe. First edition. 121pp., *plates*. A good hardback copy in slightly worn dust-wrapper.
8vo. Oxford. 1950. £3.00
180. KUNAVER, Pavel. Potovanje Po Nebu. 141, [1]p., *text illustrations*. A very good hardback copy.
8vo. Mladinska Knjiga. 1951. £6.00

~ Pavel Kunaver (1889-1988), was a Slovene pedagogue, writer of popular science books, geography, history and Slovene language teacher and pioneer of amateur astronomy.

181. JACKSON, J. Third Cape Catalogue of Stars for the Equinox of 1925.0, Catalogue of 6597 Stars between the Equator and Declination -30° (.) at the Royal Observatory, Cape of Good Hope in the Years 1932-1936. *xviii, 132pp.* Original card covers. Cancelled bookplate noting "this book was presented by Royal Observatory to the Library of the University of Cape Town, 1952." Stamp on end-paper and front cover, and library number on verso of the title-page, and also at foot of front cover, and bottom of the spine.
4to. HMSO. 1951. £20.00
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189. HUNTER, A. Presidential Address. The Royal Greenwich Observatory at Herstmonceux. 14pp., *illustrations*. A very good copy in original wrappers.
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195. KONOPLEVA, V.P. Physics of Comets and Meteors. Translated from the Russian. 92pp., *text diagrams*. A good copy in slightly worn dust-wraper.
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204. POTOČNIK, Herman. *Problem Viznje Po Vesolju*. 245pp. A very good hardback copy in dust-wrapper.
8vo. Slovenska matica Ljubljana. 1999. £8.00

~ Herman Potočnik (1892-1929), was an Austro-Hungarian Army officer, electrical engineer and astronautics theorist. He is regarded as an early theorist of modern space flight and is remembered mainly for his work concerning the long-term human habitation of space.

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