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PAYMENT:

American Express, Discover, MasterCard, VISA, PayPal, and Checks. Maine residents subject to 5.5% State Sales Tax.

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1. **Einstein and the Philosophical Problems of 20th-Century Physics.** Moscow: Progress Publishers, 1983. First Edition. First English Translation Edition. Considerable wear and scuffing to dust jacket, small losses at edges and front flap of spine. Clean within. Very Good in good dust jacket. Hardcover.

Prepared for the 100th anniversary of Einstein's birth to present the views of Russian scientists and philosophers about Einstein's concepts and philosophy. (#25090) \$40.00

2. **The Human Genome (Nature Vol. 409, No. 6822, 15 February 2001) & The ENCODE Project (Nature Vol. 489, No. 7414, 6 September 2012).** London: Nature Publishing Group, 2001/2012. First Edition. 2001: lxxi, 745-964, 154 (ads) pp. 2012: 170 pp. 4to. Both are single issue magazines with light scuffing from shelf wear. Fine. Wraps.

The 2001 issue focuses on the Human Genome project which in turn led to the ENCODE (Encyclopedia of DNA Elements) project detailed in the 2012 issue. The 2001 issue includes the two gatefold maps of Chromosomes 1-13. (#29005) \$495.00

3. Abney, William de Wiveleslie. **FIRST PHOTOGRAPHS OF THE SOLAR SPECTRUM IN THE INFRARED: "Colour Photometry." & "The Solar Spectrum, from λ 7150 to λ 10,000." (Philosophical Transactions of the Royal Society of London, Vol. 177 for the Year 1886 Part I & Part II, pp. 423-456, 457-469).** London: Royal Society of London, 1886. First Edition. 842 pp. 43 plates. 4to. Recent brown three quarter leather bindings with five raised

bands at spine, burgundy title patch with gold embossed titling, gold lines offsetting bands, decorative stamp in each compartment without titling. Numerous folding plates that illustrate articles. Numerous pages throughout volume are brittle with small tears and losses at edges, a large tear at midpoint in the title page of Poynting's article. Pages were trimmed slightly when rebound. The occasional library stamp as it is an ex-library volume, rebound. Very Good. Three Quarter Leather.

William de Wiveleslie Abney (1843-1920) extended his interests to spectroscopy and was the first to suggest (1877) that stars with rapid axial rotation could be detected by broadened lines in their spectra - an idea later to have wide application. He then devised a red-sensitive emulsion and with it made the first spectroscopic analyses of the structure of organic molecules (1882) and the first photographs of the solar spectrum in the infrared (1887). Articles illustrated by Plates 24-28. (#28793) \$475.00

4. Abney, William de Wiveleslie; Festing, Edward R. **FIRST PHOTOGRAPHS OF THE SOLAR SPECTRUM IN INFRARED: "The Bakerian Lecture - Colour Photometry" & "The Solar Spectrum, from $[\gamma]$ 7150 to $[\gamma]$ 10,000" (Philosophical Transactions of the Royal Society of London, Vol. 177 for the Year 1887, pp. 423-456, 457-460).** London: Royal Society of London, 1883. First Edition. iv, [2], vii, [1]-842 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

First photographs of the solar spectrum in the infrared. "Extending his interests to spectroscopy, Abney was the first to suggest (1877) that stars with rapid axial rotation could be detected by broadened lines in their spectra - an idea later to have wide application. He then devised a red-sensitive emulsion and with it made the first spectroscopic analyses of the structure of organic molecules (1882) and the first photographs of the solar spectrum in the infrared (1887)." "Abney, William De Wiveleslie." Complete Dictionary of Scientific Biography. 2008. (#27575) \$300.00

5. Adams, J. C. **"On the Secular Variation of the Moon's Mean Motion" (Philosophical Transactions of the Royal Society of London, Vol. 143 for the Year 1853 Part I & II, pp. 397-406).** London: Royal Society of London, 1853. First Edition. iv, [1]-566, [1]-15 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Adams corrects Pierre-Simon Laplace's (1749-1827) earlier equations for the moon's motion

Also contains William Thomson's "On the Thermal Effects of Fluids in Motion" (Volume 143 pp. 357-365, 1853) and George Gabriel Stokes' "On the Change of Refrangibility of Light.- No. II" (pp.385-386). (#27529) \$750.00

6. Adams, W. G.; Day, R. E. **PHOTOVOLTAICS AND SOLAR ENERGY BEGIN: "The Action of Light on Selenium" (Philosophical Transactions of the Royal Society of London, Vol. 167 for the Year 1877 Part I & Part II, pp. 313-349).** London: Royal Society of London, 1878. First Edition. v, 756 pp. 31 plates. 4to. Recent brown three quarter leather bindings with five raised bands at spine, burgundy title patch with gold embossed titling, gold lines offsetting bands, decorative stamp in each compartment without titling, blind embossed borders to front and rear boards. Table of Contents has a horizontal tear mid-page on p.[v], triangular piece missing from lower right corner of p. 163. Interiors clean. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Adams and Day's paper outlines their discovery that, when illuminated with a candle, that selenium produced a flow of electricity. Current solar panels and other solar charged equipment like desktop calculators were built off this principle.

Also contains John Tyndall's "Further Researches on the Department and Vital Persistence of Putrefactive and Infective Organisms from a Physical Point of View" (pp. 149-206). (#28539) \$1,500.00

7. Aharonov, Yuri; Bohm, David; Tonomura, Akira. **AHARANOV-BOHM EFFECT: "Significance of Electromagnetic Potentials in the Quantum Theory" and "Observation of Aharonov-Bohm Effect by Electron Holography" (Physical Review: (Second Series) Vol. 115, No. 3, pp. 485-491).** Lancaster, PA: The American Physical Society, 1959. First Edition. First Printing. 485-764 pp. 4to. Green paper wraps that are clean and crisp. Red ink library stamp on the cover. Housed in a custom black cloth folio with gold embossed tilting to spine. Very Good. Wraps.

The Aharonov-Bohm effect is the quantum mechanical phenomenon that allows a charged particle to be affected by an electromagnetic field that does not exist in the vicinity of the particle, one of the stranger manifestations of quantum mechanics. This paper first predicted and described this phenomenon. (#29095) \$500.00

8. Airy, George Biddell. **MEAN DENSITY OF THE EARTH: "Account of Pendulum Experiments Undertaken in the Harton Colliery, for the Purpose of Determining the Mean Density of the Earth" (Philosophical Transactions of the Royal Society of London, Vol. 146 for the Year 1856 Part I & II, pp. 297-355).** London: Royal Society of London, 1856. First Edition. iv, [3], v, [1]-951 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Airy determines the mean density of the earth.

Also contains Michael Faraday's "Experimental Researches--Thirtieth Series" (pp. 159-180); William Thomson's "The Bakerian Lecture. On the Electro-dynamic Qualities of Metals" (pp. 649-751); and William Andrews' "On the Constitution and Properties of Ozone" (pp. 1-13). (#27531) SOLD

9. Allen, Grant. **Charles Darwin.** New York: D. Appleton and Company, 1885. First Edition. vi, [1], 206, [2] pp ads. Green cloth covered boards with gold and dark red embossed tilting and decoration to spine and front cover board. Light scuffing to boards from shelf wear, bumping to corners. Previous owner's name in ink on front pastedown and second free endpaper, clean within. Very Good. Hardcover.

Part of the "English Worthies" Series edited by Andrew Lang. (#24449) \$55.00

10. Anderson, Carl; Cockcroft, J. D.; Gilbert, E.T.S. Walton; Fermi, Enrico; Joliot-Curie, Irène; Joliot-Curie, Jean; Tamm, Igor; Ivanenko, Dmitri. **"The Positron"; "Production of Induced Radioactivity by High Velocity Protons" "Radioactivity Induced by Neutron Bombardment"; "Mass of the Neutron"; "Possible Production of Elements of Atomic Number Higher than 92"; "Exchange Forces between Neutrons and Protons, and Fermi's Theory"; "Interaction of Neutrons and Protons"** London: Macmillan and Co., Limited, 1934. First Edition. lxvi, 996 pp. 4to. Green cloth buckram binding with gold embossed titling to spine, minor scuffing from shelf wear. Ex-Library stamps on first free endpaper, title page.

Volume contains a number of important papers: "The Positron" by Carl Anderson (pp. 313-316); "Production of Induced Radioactivity by High Velocity Protons" by J. D.

Cockcroft, C. W. Gilbert and E. T. S. Walton (p. 328); "Radioactivity Induced by Neutron Bombardment" by Enrico Fermi (p. 757); "Mass of the Neutron" by Irène Joliot-Curie and Jean Frédéric Joliot-Curie (pp. 721-722); "Possible Production of Elements of Atomic Number Higher than 92" by Enrico Fermi (pp. 898-899); "Exchange Forces between Neutrons and Protons, and Fermi's Theory" by Igor Tamm and "Interaction of Neutrons and Protons" by Dmitri Ivanenko (pp. 981-982). (#29004) \$675.00

11. Andrews, Thomas. **CRITICAL POINT IN GASES: "The Bakerian Lecture: On the Continuity of the Gaseous and Liquid States of Matter"** (*Philosophical Transactions of the Royal Society of London, Vol. 159 for the Year 1869, pp. 575-590*). London: Royal Society of London, 1869. First Edition. iv, v, [4], [4], 28, [1]-812 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Thomas Andrews' (1813-1885) paper explaining his discovery of the "critical point," the temperature above which no gas can be liquified by any pressure.

Also contains J. Norman Lockyer's "Spectroscopic Observations of the Sun. -- No. II" (pp. 425-444). (#27558) \$600.00

12. Andrews, William. **"On the Constitution and Properties of Ozone"** (*Philosophical Transactions of the Royal Society of London, Vol. 146 for the Year 1856 Part I & II, pp. 1-13*). London: Royal Society of London, 1856. First Edition. iv, [3], v, [1]-951 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Thomas Andrews (1813-1885) shows that ozone is oxygen in allotropic form.

Also contains Michael Faraday's "Experimental Researches--Thirtieth Series" (pp. 159-180); G. B. Airy's "Account of Pendulum Experiments Undertaken in the Harton Colliery, for the Purpose of Determining the Mean Density of the Earth" (Volume 146 pp. 297-355, 1856); and William Thomson's "The Bakerian Lecture. On the Electro-dynamic Qualities of Metals" (pp. 649-751). (#27533) SOLD

13. Aston, Francis William. **ATOMIC WEIGHT & THE WHOLE NUMBER RULE I: "The Constitution of Atmospheric Neon;" "The Mass-Spectra of Chemical Elements."** (*The London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science [Sixth Series], Vol. 39, pp. 449-455, 611-625*). London: Taylor and Francis, 1920. First Edition. vii, [1], 704 pp. 8vo. 15 Plates . Original brown library bindings with gold embossed titling to spine. Blind embossed library stamp on first free endpaper along with an ink WITHDRAWN stamp, blind embossed library stamp on title page; due date sheet tipped onto last page of volume, very clean within. Fine. Hardcover.

Aston's description of his early experiments demonstrating the "whole number rule" in which he determined that the precise atomic weight of a number of isotopes is based on whole number multiples of the mass of a hydrogen atom. Aston received the Nobel Prize for Chemistry in 1922 for his creation of the whole number rule. (#27134) \$250.00

14. Barter, E.G. **Relativity and Reality: A Re-Interpretation of Anomalies Appearing in the Theories of Relativity.** London: Watts & Co., 1953. First Edition. xi, 131 pp. 8vo. Light scuffing to dust jacket, soiling and sunning to spine, short closed tear at base of front panel, small loss at head and foot of spine, now in mylar cover. Very Good in good dust jacket. Hardcover. (#25072) \$40.00

15. Bateson, W. **Mendel's Principles of Heredity: A Defence**. Placitas, NM: Genetics Heritage Press, 1996. As. Facsimile Edition of 1902 Cambridge University Press Edition. xiv, [1], 212 pp. 8vo. Light wear and scuffing to covers, encased in custom mylar dust jacket. Ex-library with library stamp on first free endpaper and across top of text block. Slight water stain at lower right corner of text block and front and rear pastedowns. Very Good. Hardcover. (#26547) \$25.00

16. Boole, George. **"On the Comparison of Transcendents, with Certain Applications to the Theory of Definite Integrals"** (*Philosophical Transactions of the Royal Society of London, Vol. 147, pp. 745-803*). London: Royal Society of London, 1857. First Edition. iv, [8], [1]-906, [1], 19 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover. (#27518) \$250.00

17. Bowman, William. **"Additional Note on the Contraction of Voluntary Muscle in the Living Body"** (*Philosophical Transactions of the Royal Society of London, Vol. 131 for the Year 1841 Part I & Part II, pp. 69-74*). London: Royal Society of London, 1841. First Edition. viii, [1], [1]-10, [1]-312, [12] pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains Gideon Algernon Mantell's: "Memoir on a portion of the lower jaw of the Iguanodon, and on the remains of the Hylæosaurus and other Saurians, discovered in the Strata of Tilgate Forest, in Sussex" (pp. 131-151) (#27491) \$400.00

18. Bowman, William. **BOWMAN'S CAPSULE: "On the Structure and Use of the Malpighian Bodies of the Kidney, With Observations on the Circulation Through That Gland"** (*Philosophical Transactions of the Royal Society of London, Vol. 132 for the Year 1842 Part I & Part II, pp. 57-80*). London: Royal Society of London, 1842. First Edition. viii, [1], [1]-312, 16, [8] pp. 4to. Recent brown three quarter leather bindings with five raised bands at spine, burgundy title patch with gold embossed titling, gold lines offsetting bands, decorative stamp in each compartment without titling, blind embossed borders to front and rear boards. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

William Bowman (1816-1892) won the Royal Society of London's Royal Medal for this paper detailing his discovery of a key component of the nephron, now known as "Bowman's Capsule" which is the first step in the kidney's filtration of blood in the process that results in urine.

Also contains J. Frederic Daniell's: "Sixth Letter on Voltaic Combinations" (pp. 137-155) and John Herschel's "On the Action of the Rays of the Solar Spectrum on Vegetable Colours, and on some new Photographic Processes" (Philosophical Transactions of the Royal Society of London, Vol. 132 for the Year 1842 Part I & Part II, pp. 181-214) (#29098) \$1,500.00

19. Brewster, David. **PHOTOELASTIC EFFECT: "On a New Species of Double Refraction, Accompanying a Remarkable Structure in Analcime"** (*The Edinburgh Philosophical Journal, No. XX, pp. 255-259*). Edinburgh, Scotland: Archibald Constable and Co., 1824. First Edition. 8 [advertisement], iv, [206]-392 pp. 8vo. 8 plates. Original paper wraps with wear and considerable chipping at edges, majority of spine paper missing, still tight with no loose pages. Good. Wraps.

David Brewster (1781-1868) was best know for his work in the field of optics. This paper details his experiments in double refraction which led to the discovery of the Photoelastic Effect. Double refraction, or birefringence, is where light splits and takes two slightly different paths through a material. (#28126) \$225.00

20. Bush, Vannevar. "**As We May Think**" (**Life Magazine, Vol. 19, No. 11--September 10, 1945**). Chicago, IL: Time Magazine, 1945. First Edition. 144 pp. Folio. Light wear overall, clean and crisp within. Very Good. Wraps.

A condensed version of Vannevar Bush's (1890-1974) Atlantic Monthly article of July 1945 in which Bush describes his proposed "Memex" system for organizing, storing, retrieving and linking information - a collective memory machine based on the image of the mind. The original paper has been credited with originating the idea of hypertext and the World Wide Web. This publication would have reached an even broader audience than the Atlantic Monthly edition with Life Magazine being the highest circulation magazine at the time. (#27970) \$180.00

21. Camper, Peter; Milner, Isaac. "**Account of of the Organs of Speech of the Orang Outang;**" "**On the Precession of the Equinoxes produced by the Sun's Attraction**" (**Philosophical Transactions of the Royal Society of London, Vol. LXIX for the Year 1779, Part I & Part II, pp. [601]-610, 689-788, 1027-1048**). London: Royal Society of London, 1779, 1780. First Edition. iii-viii, 323, [2], [v]-vii, [325]-696, [1] pp. 8vo. Library binding, tan leather spine with gold embossed titling, scuffing and tears where call numbers have been removed. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Quarter Leather.

This complete volume of papers by numerous authors on a variety of subjects including medicine, natural history, physics, mathematics and archaeology, illustrated with numerous plates. (#26521) \$300.00

22. Cavendish, H.; Watson, W.; Franklin, Benjamin; Robertson, J.; Wilson, Benjamin; Deluc, Jean-André. "**A Report of the Committee Appointed by the Royal Society, to Consider of a Method for Securing the Powder Magazines at Purfleet;**" "**Mr. Wilson's Dissent to Part of the Preceding Report;**" "**A Letter to Sir John Pringle, Bart. Pr. R. S. on Pointed Conductors;**" "**Account of a new Hygromter**" (**Philosophical Transactions of the Royal Society of London, Vol. LXIII, Part I & Part II; pp. 42-47, 66; 404-460.**). London: Royal Society of London, 1773, 1774. First Edition. [2], v-viii, 218, v-vii, 221-507, [1] pp. 8vo. Library binding, tan leather spine with gold embossed titling, scuffing and tears where call numbers have been removed. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Quarter Leather.

Franklin and company's proposal for protecting the magazines at Purfleet, Wilson's dissent, and the group's letter saying they stand by their original assertions. Lengthy report on Deluc's development of a new hygrometer that used mercury instead of alcohol as the indicator fluid. Deluc's two folding plate with two separate illustrations was engraved by Basire.

Also contains papers by numerous other authors on a variety of subjects including medicine, natural history, physics, mathematics and archaeology, illustrated with numerous plates. (#26517) \$500.00

23. Cayley, Arthur. **"A Supplementary Memoir on the Theory of Matrices" (Philosophical Transactions of the Royal Society of London, Vol. 156 for the Year 1866, pp. 25-35).**

London: Royal Society of London, 1866. First Edition. v, [4], 25, [1]-886 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Arthur Cayley's (1821-1895) paper supplementing his earlier paper "Memoire on the Theory of Matrices" (pp. 17-37) in our #27536.

Also contains J. Clerk Maxwell's "The Bakerian Lecture: On the Viscosity or Internal Friction of Air and Other Gases" (pp. 249-268). (#27555) \$450.00

24. Cayley, Arthur. **CAYLEY-HAMILTON THEORUM & MATRICES: "Memoir on the Theory of Matrices" & "A Memoir on the Automorphic Linear Transformation of Bipartite Quadric Function" (Philosophical Transactions of the Royal Society of London, Vol. 148 for the Year 1858, pp. 17-37, 39-52).** London: Royal Society of London, 1858. First Edition. v, [8], 21, [1]-909 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Arthur Cayley (1821-1895) introduces matrices to simplify the notation which arises in simultaneous linear equations. He further introduces the ideas of unit matrix, matrix addition and multiplication, inverse matrix and powers of matrices. More significantly, Cayley introduces the algebraic notation of matrix calculus, explores the non-commutative algebra associated with matrix multiplication and proves the Cayley-Hamilton Theorem that every matrix satisfies its own characteristic equation.

Also contains John P. Gassiot's "The Bakerian Lecture -- On the Stratifications and Dark Band in Electrical Discharges as observed in Torricellian Vacua" (Volume 148 pp. 1-16, 1858) and Joseph Lister's "An Inquiry Regarding the Parts of the Nervous System Which Regulate the Contractions of the Arteries," "On the Cutaneous Pigmentary System of the Frog," & "On the Early Stages of Inflammation" (pp. 607-625, 627-643, 645-702) (#27536) \$900.00

25. Cayley, Arthur. **IMAGINARY DIMENSIONS IN GEOMETRY: "A Sixth Memoir Upon Quantics" (Philosophical Transactions of the Royal Society of London, Vol. 149 for the Year 1859, pp. 61-90).** London: Royal Society of London, 1859. First Edition. vi, [4], 16, [1]-930 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Arthur Cayley (1821-1895) paper describes imaginary dimensions in geometry, builds up on his three papers, "Memoir on the Theory of Matrices" & "A Memoir on the Automorphic Linear Transformation of Bipartite Quadric Function" in our #27536.

Also contains John Gassiot's "On the Stratifications in Electrical Discharges, as Observed in Torricellian and other Vacua.- Second Communication" (pp. 137-160) and William Farr's "On the Construction of Life-Tables, Illustrated by a New Life-Table of the Healthy Districts of England" (pp. 837-878). (#27538) \$750.00

26. Chamberlin, Thomas Crowder. **The Two Solar Families: The Sun's Children.** Chicago, IL: The University of Chicago Press, 1928. First Edition. xxii, 311 pp. 8vo. Burgundy cloth covered boards with gold embossed titling to cover board and spine. Minor darkening to spine. Clean and crisp within. Very Good. Hardcover.

Describes the famous geologist's "planetesimal theory" as introduced earlier in his work "The Origin of the Earth". (#24472) \$55.00

27. Clark, Latimer. **STANDARD MEASUREMENT FOR THE VOLT: "On a Standard Voltaic Battery" (Philosophical Transactions of the Royal Society of London, Vol. 164 for the Year 1874, pp. 1-14).** London: Royal Society of London, 1874. First Edition. v, [4], [1]-818 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Latimer Clark's first attempt to determine a standard measurement for the 'volt.'

Also contains William Crookes' "On Attraction and Repulsion Resulting from Radiation" and J. Norman Lockyer's: "Researches in Spectrum-Analysis in Connexion with the Spectrum of the Sun. No. III & No. IV" (pp. 479-494 and 805-813). (#27564) \$300.00

28. Crick, Francis. **What Mad Pursuit: A Personal View of Scientific Discovery.** New York: Basic Books, 1988. First Edition. First Printing. xiii, 182 pp. 8vo. Dust jacket has sunning to spine, now in mylar cover. Blue cloth boards and is clean and crisp within. Fine in Very Good dust jacket. Hardcover.

Francis Crick (1916-2004) was a molecular biologist who won the Nobel Prize in Physiology of Medicine in 1962 for determining the helical structure of DNA, an honor he shared with James Watson and Maurice Wilkins. (#28685) \$10.00

29. Crookes, William. **"On Attraction and Repulsion Resulting from Radiation" (Philosophical Transactions of the Royal Society of London, Vol. 164 for the Year 1874, pp. 501-527).** London: Royal Society of London, 1874. First Edition. v, [4], [1]-818 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains Latimer Clark's "On a Standard Voltaic Battery" (pp. 1 - 14) and J. Norman Lockyer's: "Researches in Spectrum-Analysis in Connexion with the Spectrum of the Sun. No. III and IV" (pp. 479-494 and 805-813). (#27563) \$300.00

30. Crookes, William. **"The Bakerian Lecture: On Repulsion Resulting from Radiation. Part V" (Philosophical Transactions of the Royal Society of London, Vol. 169 for the Year 1878, pp. 243-318).** London: Royal Society of London, 1878-1879. First Edition. iv, [2], v, [2], [1]-826 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains William James Prescott Joule's "New Determination of the Mechanical Equivalent of Heat" (pp. 365-383) (#27567) \$350.00

31. Dalton, John. **"Sequel to an Essay on the Constitution of the Atmosphere." (Philosophical Transactions of the Royal Society of London, Vol. 127 for the Year 1837 Part I & Part II, pp. 347-363).** London: Royal Society of London, 1837. First Edition. x, [1]-178, [179]-446 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains J. Frederic Daniell's article, "Further Observations on Voltaic Combinations. In a Letter addressed to Michael Faraday" (pp. 141-160) (#27485) \$500.00

32. Daniell, J. Frederic. **DANIELL CELL: "Fifth Letter on Voltaic Combinations, with Some Account of the Effects of a Large Constant Battery" & "On the Electrolysis of Secondary Compounds"** (Philosophical Transactions of the Royal Society of London, Vol. 129 for the Year 1839 Part I & Part II, pp. 89-95, 97-112). London: Royal Society of London, 1838. First Edition. iv, [5], [1]-12, [1]-438, [8] pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains Faraday's "Experimental Researches in Electricity -- Fifteenth Series" (pp. 1-12). (#27490) \$400.00

33. Daniell, J. Frederic. **DANIELL CELL: "Fourth Letter on Voltaic Combinations, with Reference to the Mutual Relations of the Generating and Conducting Surfaces."** (Philosophical Transactions of the Royal Society of London, Vol. 128 for the Year 1838 Part I & Part II, pp. 41-56). London: Royal Society of London, 1838. First Edition. ix, [1]-59, [1]-414, [8] pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains Charles Wheatstone's article, "Contributions to the Physiology of Vision. Part the First. On Some Remarkable, and Hitherto Unobserved, Phenomena of Binocular Vision." (pp. 371-394).

Also contains Michael Faraday's articles, "Experimental Researches in Electricity -- Eleventh, Supplementary Note, Twelfth, Thirteenth & Fourteenth Series" (pp. 1-40, 79-82, 83-124, 125-168, 265-282). (#27487) \$750.00

34. Daniell, J. Frederic. **DANIELL CELL: "Sixth Letter on Voltaic Combinations"** (Philosophical Transactions of the Royal Society of London, Vol. 132 for the Year 1842 Part I & Part II, pp. 137-155). London: Royal Society of London, 1842. First Edition. iv, [5], [1]-12, [1]-438, [8] pp. 4to. Recent brown three quarter leather bindings with five raised bands at spine, burgundy title patch with gold embossed titling, gold lines offsetting bands, decorative stamp in each compartment without titling, blind embossed borders to front and rear boards. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains William Bowman's "On the Structure and Use of the Malpighian Bodies of the Kidney, With Observations on the Circulation Through That Gland" (pp. 57-80) and John Herschel's "On the Action of the Rays of the Solar Spectrum on Vegetable Colours, and on some new Photographic Processes" (Philosophical Transactions of the Royal Society of London, Vol. 132 for the Year 1842 Part I & Part II, pp. 181-214) (#29099) \$1,500.00

35. Daniell, J. Frederic. **"Further Observations on Voltaic Combinations. In a Letter addressed to Michael Faraday"** (Philosophical Transactions of the Royal Society of London, Vol. 127 for the Year 1837 Part I & Part II, pp. 141-160). London: Royal Society of London, 1837. First Edition. x, [1]-178, [179]-446 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains John Dalton's article, "Sequel to an Essay on the Constitution of the Atmosphere." (pp. 347-363) (#27484) \$250.00

36. Darwin, G.H. (George H.). **RESONANCE THEORY: "On the Secular Changes in the Elements of the Orbit of a Satellite Revolving About a Tidally Distorted Planet."** (*Philosophical Transactions of the Royal Society of London, Vol. 171 for the Year 1880 Part I & Part II, pp. 713-891*). London: Royal Society of London, 1880. First Edition. x, 419 pp.; iv, 421-1092 pp. 51 plates. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

George H. Darwin's (1845-1912) "Resonance Theory" of the origin of the moon, according to which the moon might have originated from the fission of a parent earth as the result of an instability produced by resonant solar tides.

Also contains William Huggins's paper on stellar spectrum photography, "On the Photographic Spectra of Stars." (#29097) \$400.00

37. Darwin, George H. "**On the Tidal Friction of a Planet Attended by Several Satellites, and on the Evolution of the Solar System"** (*Philosophical Transactions of the Royal Society of London, Vol. 172 for the Year 1882, pp. 491-535*). London: Royal Society of London, 1882. First Edition. iv, v, [2], [1]-922 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains J. Norman Lockyer's "Researches in Spectrum-Analysis in Connexion with the Spectrum of the Sun. No. V" (pp. 561-576). (#27572) \$300.00

38. Dawkins, Richard. **A Devil's Chaplain: Reflections on Hope, Lies, Science, and Love.** Boston, MA: Houghton Mifflin Company, 2003. First Edition. Second Printing. vi, 263 pp. 8vo. Minor scuffing to dust jacket, price clipped, now in mylar cover. Very clean copy. Fine in Very Good dust jacket. Hardcover.

Clinton Richard Dawkins (b. 1941) is likely best known as a University of Oxford trained evolutionary biologist who has taken on a wider public role as an atheist based upon his study of science and evolution. (#28686) \$15.00

39. Dawkins, Richard. **The Selfish Gene.** New York: Oxford University Press, 1976. First Edition. First American Edition. First Printing. xi, 224 pp. 8vo. Minor scuffing to , small chip at head of spine, very light rubbing at edges, now in mylar cover. Very light dust spotting along edges of text block, boards and interior pristine. Fine in Very Good dust jacket. Hardcover.

Clinton Richard Dawkins (b. 1941) is likely best known as a University of Oxford trained evolutionary biologist who has taken on a wider public role as an atheist based upon his study of science and evolution. "The Selfish Gene" was Dawkins' first book and oddly enough, also introduced the word "meme" to the English language. (#28687) \$600.00

40. De Finis, Francesco (Editor). **Relativity, Quanta, and Cosmology in the Development of the Scientific Thought of Albert Einstein (2 Volumes).** New York: Johnson Reprint Corporation, 1979. xii, 402, xii, 403-825. 4to. Red cloth covered boards. Both volumes clean and crisp inside and out. No dust jackets as issued. Light scuffing to cloth covered slipcase with gold embossed title. Fine. Hardcover. (#25106) \$75.00

41. Dulong, Pierre Louis; Thénard, Louis Jacques. **Annales de Chimie et de Physique (5th Series, Volume 15).** Paris: Gauthier-Villars, 1878. First Edition. 576 pp. 8vo. Patterned brown paper covers with green leather spine, gold embossed titling and horizontal lines. Light scuffing

from shelf wear. Clean within. Numerous plates and illustrations, some folding. Text in French. Very Good. Hardcover.

Annual volume of papers by numerous authors on a chemistry and physics, illustrated with numerous plates. (#27617) \$100.00

42. Dumas, Jean-Baptiste. **Mémoire sur les Éthers Composés; Mémoire sur la loi des Substitutions et la Théorie des Types; Recherches sur le Veritable Poids Atomique du Carbone; Relatives a l'Action du Chlore sur l'Alcool loi des Substitutions ou Métalespie** Recherches de Chimie Organique. Paris, 1838, 1840. First Edition. 4to. Blue cloth covered boards with gold embossed titling to spine and titled "Recherches de Chimie Organique". Four extracts from proceedings published by L'Academie des Sciences in Paris. Papers are of two different sizes but have been bound in one uniform binding. The titles are as follows: "Mémoire sur les Éthers Composés" published by L'Academie in 1838, Volume XV, pp 457-494. "Mémoire sur la loi des Substitutions et la Théorie des Types" published by L'Academie in 1840, Volume X, pp 147-207, Dumas dissertation on pp. 149-178. "Recherches sur le Veritable Poids Atomique du Carbone" published by L'Academie in 1840, Volume XI, pp 991-1020, "Reserches de Chimie Organique, Relatives a l'Action du Chlore sur l'Alcool loi des Substitutions ou Métalespie" published by L'Academie in 1838, Volume XV, pp 519-556. Very light toning to paper from age, some pages uncut at head of text block. Very Good. Hardcover.

Unusual to find a collection of Dumas' work from a scientific journal of the period compiled in one volume. (#24578) \$250.00

43. Eddington, Arthur Stanley. **Science and the Unseen World.** New York: The Macmillan Company, 1929. First Edition. Second Printing. 91 pp. 8vo. Light wear and chipping to dust jacket, has darkened from sunning, small loss at top of front panel; small loss at head of spine that continues around back panel, now in mylar cover. Blue cloth covered boards with gold embossed titling to spine, previous owner's name written neatly in ink on first free endpaper. Clean within. Fine in good dust jacket. very good.

The noted English astronomer and physicist writes about the spiritual side of life. (#24476) \$25.00

44. Edgeworth, Francis Y. **CORRELATION COEFFICIENT: "Correlated Averages" & "The Law of Error and Correlated Averages" (The London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science [Fifth Series], Vol. XXXIV, pp. 190-204, 428-438 & 518-526).** London: Taylor and Francis, 1892. First Edition. vii, [1], 533 pp. 8vo. 10 plates, all folding. Rebound in an exquisite three quarter leather binding with brown leather spine with four raised bands, gold embossed titling on black leather patch titles, marbled paper insets to cover boards. Only indication of ex-library status is Japanese ink stamp on the title page. Very clean within. Fine. Three Quarter Leather.

Francis Ysidro Edgeworth's (1845-1926) paper in which he descriubes the first systematic analysis of correlation in relation to the normal distribution. Herein he coins the term "coefficient of correlation." (#28108) \$575.00

45. Edgeworth, Francis Y. **CORRELATION COEFFICIENT: "Correlated Averages" & "The Law of Error and Correlated Averages" (The London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science [Fifth Series], Vol. XXXIV, pp. 190-204, 428-438 & 518-526).** London: Taylor and Francis, 1892. First Edition. vii, [1], 533 pp. 8vo. 10 plates, all folding. Original three quarter leather binding with gold lines and titling to spine, call number at base of spine in white ink only indication of ex-library. Considerable wear and scuffing to the covers, losses at head and foot of spine and corners of boards, chipping along front hinge where darker surface leather has flaked off from use.. Good. Three Quarter Leather.

Francis Ysidro Edgeworth's (1845-1926) paper in which he describes the first systematic analysis of correlation in relation to the normal distribution. Herein he coins the term "coefficient of correlation." (#28144) \$525.00

46. Einstein, Albert. **THEORETICAL BASIS FOR THE LASER: "Zur Quantentheorie der Strahlung [On the Quantum Theory of Radiation]" (Physikalische Zeitschrift, Vol. 18, pp. 121-128).** Leipzig, Germany: S. Hirzel, 1917. First Edition. xi, 604 pp. 4to. Black cloth binding with gold embossed titling to spine. Ex-library stamp on title page, the only indication of its former life in an institution. Very clean within. Very Good. Hardcover.

Albert Einstein's (1879-1955) derivation of Planck's law for thermal radiation. Einstein also introduces the possibility of stimulated emission of radiation, the principle behind the laser. (#27729) \$650.00

47. Evans, E. J.; Fowler, Alfred; Bohr, Niels. **BOHR'S ATOMIC THEORY & THE HYDROGEN ATOM: "The spectra of helium and hydrogen;" "The spectra of helium and hydrogen;" "The spectra of helium and hydrogen."** (Nature; Volume 92 pp. 5-6, 95-96, 231-232). London: Macmillan and Co., 1913. First Edition. xl, 732 pp. 4to. Terracotta color publisher's binding with gold and black embossed titling and borders to cover board and spine. Ex-Library with Royal College Naval Library bookplate on front pastedown, borrower's card slot glued to front pastedown, due date sheet pasted to first free endpaper. No other library markings present other than the number "53" in white ink at base of spine. Clean within. Very Good. Hardcover.

These three papers discuss the application of Niels Bohr's atomic theory to the hydrogen atom. Also contains the following articles on the atomic number and first use of the term, "isotope": "Intra-Atomic Charge" by Antonius van den Broek (pp. 372-373); and "Intra-Atomic Charge" by Frederick Soddy (p. 399); and "The Structure of the Atom" by Ernest Rutherford (p. 423) (#27174) \$300.00

48. Faraday, Michael. **ELECTRIC EEL RESEARCH "Experimental Researches in Electricity -- Fifteenth Series" (Philosophical Transactions of the Royal Society of London, Vol. 129 for the Year 1839 Part I & Part II, pp. 1-12).** London: Royal Society of London, 1839. First Edition. iv, [5], [1]-12, [1]-438, [8] pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also see our #27486 which contains Faraday's "Experimental Researches in Electricity -- Eleventh, Supplemental Note, Twelfth, Thirteenth & Fourteenth Series, # 27495 "Experimental Researches in Electricity -- Eighteenth Series" (pp. 17-32), & #27500 with Faraday's "Experimental Researches in Electricity -- Nineteenth, Twentieth & Twenty-First Series" (pp. 1-62), our #27503 which contains Faraday's "Experimental Researches in Electricity -- Twenty-Second Series" (pp. 1-41), our #27505 which contains "Experimental Researches in Electricity -- Twenty-Third Series" (pp. 171-188), #27508 which contains "Experimental Researches in Electricity -- Twenty-Fourth, Twenty-Fifth, Twenty-Sixth, & Twenty-Seventh Series" (pp. 1-116), #27513 "Experimental Researches in Electricity -- Twenty-Eighth & Twenty-Ninth Series" (pp. 25-56, 137-159), #27530 "Experimental Researches in Electricity --Thirtieth Series" (pp. 159-180),

Also contains Daniell's "Fifth Letter on Voltaic Combinations, with Some Account of the Effects of a Large Constant Battery" (pp. 89-95) & "On the Electrolysis of Secondary Compounds" (pp. 97-112) (#27489) \$500.00

49. Faraday, Michael. "**Experimental Researches in Electricity -- Eighteenth Series**" (**Philosophical Transactions of the Royal Society of London, Vol. 133 for the Year 1843 Part I & Part II, pp. 17-32**). London: Royal Society of London, 1843. First Edition. viii, [1]-336, [2] pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Crumpling and tears to p. 37/38, does not impact this article. Very Good. Hardcover.

Also see our #27486 which contains Faraday's "Experimental Researches in Electricity -- Eleventh, Supplemental Note, Twelfth, Thirteenth & Fourteenth Series, #27489 which contains Faraday's "Experimental Researches in Electricity -- Fifteenth Series" (pp. 1-12), #27500 with Faraday's "Experimental Researches in Electricity -- Nineteenth, Twentieth & Twenty-First Series" (pp. 1-62), our #27503 which contains Faraday's "Experimental Researches in Electricity -- Twenty-Second Series" (pp. 1-41), our #27505 which contains "Experimental Researches in Electricity -- Twenty-Third Series" (pp. 171-188), , #27508 which contains "Experimental Researches in Electricity -- Twenty-Fourth, Twenty-Fifth, Twenty-Sixth, & Twenty-Seventh Series" (pp. 1-116), #27513 "Experimental Researches in Electricity -- Twenty-Eighth & Twenty-Ninth Series" (pp. 25-56, 137-159), #27530 "Experimental Researches in Electricity --Thirtieth Series" (pp. 159-180),

Also contains William Robert Grove's "On the Gas Voltaic Battery. Experiments Made with a View of Ascertaining the Rationale of Its Action and Its Application to Eudiometry" (pp. 91-112) Also contains Charles Wheatstone's "The Bakerian Lecture--An account of several new instruments and processes for determining the constants of a voltaic circuit" pp. 303-327 (Wheatstone Bridge); (#27495) \$450.00

50. Faraday, Michael. "**Experimental Researches in Electricity -- Twenty-Fourth, Twenty-Fifth, Twenty-Sixth, & Twenty-Seventh Series**" (**Philosophical Transactions of the Royal Society of London, Vol. 141 for the Year 1851 Part I, pp. 1-116**). London: Royal Society of London, 1851. First Edition. x, [1], [1]-331, [1], clvii pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also see our #27486 which contains Faraday's "Experimental Researches in Electricity -- Eleventh, Supplemental Note, Twelfth, Thirteenth & Fourteenth Series, #27489 which contains Faraday's "Experimental Researches in Electricity -- Fifteenth Series" (pp. 1-12), #27495 which contains Faraday's "Experimental Researches in Electricity -- Eighteenth Series" (pp. 17-32), #27500 "Experimental Researches in Electricity -- Nineteenth, Twentieth & Twenty-First Series" (pp. 1-62), & #27505 "Experimental Researches in Electricity -- Twenty-Third Series" (pp. 171-188), #27513 "Experimental Researches in Electricity -- Twenty-Eighth & Twenty-Ninth Series" (pp. 25-56, 137-159), #27530 "Experimental Researches in Electricity --Thirtieth Series" (pp. 159-180),

Also contains William Thomson's "A Mathematical Theory of Magnetism" & "A Mathematical Theory of Magnetism. Continuation of Part I" (pp. 243-285). (#27508) SOLD

51. Faraday, Michael. "**Experimental Researches in Electricity -- Twenty-Second Series**" (**Philosophical Transactions of the Royal Society of London, Vol. 139 for the Year 1849 Part I & Part II, pp. 1-41**). London: Royal Society of London, 1849. First Edition. viii, [1]-523, 15 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-

library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also see our #27486 which contains Faraday's "Experimental Researches in Electricity -- Eleventh, Supplemental Note, Twelfth, Thirteenth & Fourteenth Series, #27489 which contains Faraday's "Experimental Researches in Electricity -- Fifteenth Series" (pp. 1-12), #27495 which contains Faraday's "Experimental Researches in Electricity -- Eighteenth Series" (pp. 17-32), & #27500 "Experimental Researches in Electricity -- Nineteenth, Twentieth & Twenty-First Series" (pp. 1-62), our #27505 which contains "Experimental Researches in Electricity -- Twenty-Third Series" (pp. 171-188), #27508 which contains "Experimental Researches in Electricity -- Twenty-Fourth, Twenty-Fifth, Twenty-Sixth, & Twenty-Seventh Series" (pp. 1-116), #27513 "Experimental Researches in Electricity -- Twenty-Eighth & Twenty-Ninth Series" (pp. 25-56, 137-159), #27530 "Experimental Researches in Electricity --Thirtieth Series" (pp. 159-180),

Also contains Thomas Graham's "On the Motion of Gases. Part II" (pp. 349-391). (#27503) \$500.00

52. Faraday, Michael. **"Experimental Researches in Electricity -- Twenty-Third Series" (Philosophical Transactions of the Royal Society of London, Vol. 140 for the Year 1850 Part I, pp. 171-188)**. London: Royal Society of London, 1850. First Edition. x, [1]-296 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Small 1" tear at head of article, p. 171. Very Good. Hardcover.

Also see our #27486 which contains Faraday's "Experimental Researches in Electricity -- Eleventh, Supplemental Note, Twelfth, Thirteenth & Fourteenth Series, #27489 which contains Faraday's "Experimental Researches in Electricity -- Fifteenth Series" (pp. 1-12), #27495 which contains Faraday's "Experimental Researches in Electricity -- Eighteenth Series" (pp. 17-32), & #27500 "Experimental Researches in Electricity -- Nineteenth, Twentieth & Twenty-First Series" (pp. 1-62), #27503 which contains "Experimental Researches in Electricity -- Twenty-Second Series" (pp. 171-188), #27508 which contains "Experimental Researches in Electricity -- Twenty-Third Series" (pp. 171-188), #27508 which contains "Experimental Researches in Electricity -- Twenty-Fourth, Twenty-Fifth, Twenty-Sixth, & Twenty-Seventh Series" (pp. 1-116), #27513 "Experimental Researches in Electricity -- Twenty-Eighth & Twenty-Ninth Series" (pp. 25-56, 137-159), , #27530 "Experimental Researches in Electricity --Thirtieth Series" (pp. 159-180),

Also contains James Prescott Joule's "On the Mechanical Equivalent of Heat" (pp. 61-82). (#27505) \$1,500.00

53. Faraday, Michael. **LINES OF MAGNETIC FORCE & MAGNETO-ELECTRIC CURRENT: "Experimental Researches in Electricity -- Twenty-Eighth & Twenty-Ninth Series" (Philosophical Transactions of the Royal Society of London, Vol. 142 for the Year 1852 Part I & II, pp. 25-56, 137-159)**. London: Royal Society of London, 1852. First Edition. viii, [1]-659, [1], 14 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also see our #27486 which contains Faraday's "Experimental Researches in Electricity -- Eleventh, Supplemental Note, Twelfth, Thirteenth & Fourteenth Series, #27489 which contains Faraday's "Experimental Researches in Electricity -- Fifteenth Series" (pp. 1-

12), #27495 which contains Faraday's "Experimental Researches in Electricity -- Eighteenth Series" (pp. 17-32), #27500 "Experimental Researches in Electricity -- Nineteenth, Twentieth & Twenty-First Series" (pp. 1-62), & #27505 "Experimental Researches in Electricity -- Twenty-Third Series" (pp. 171-188), #27508 which contains "Experimental Researches in Electricity -- Twenty-Fourth, Twenty-Fifth, Twenty-Sixth, & Twenty-Seventh Series" (pp. 1-116), #27530 "Experimental Researches in Electricity -- Thirtieth Series" (pp. 159-180), #27530 "Experimental Researches in Electricity -- Thirtieth Series" (pp. 159-180),

Also contains Michael Faraday's "Charles Wheatstone's "Contributions to the Physiology of Vision. Part the Second. On Some Remarkable, and Hitherto Unobserved, Phenomena of Binocular Vision (Continued), (pp. 1-17)" James Prescott Joule's "On the Air Engine" (pp. 65-82); Edward Frankland's: "On a New Series of Organic Bodies Containing Metals" (pp. 417-444); George Gabriel Stokes' "On the Change of Refrangibility of Light" (pp.463-562). (#27513) SOLD

54. Faraday, Michael. **MAGNECRYSTALLIC FORCE: "Experimental Researches in Electricity -- Thirtieth Series"** (Philosophical Transactions of the Royal Society of London, Vol. 146 for the Year 1856 Part I & II, pp. 159-180). London: Royal Society of London, 1856. First Edition. iv, [3], v, [1]-951 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also see our #27486 which contains Faraday's "Experimental Researches in Electricity -- Eleventh, Supplemental Note, Twelfth, Thirteenth & Fourteenth Series, #27489 which contains Faraday's "Experimental Researches in Electricity -- Fifteenth Series" (pp. 1-12), #27495 which contains Faraday's "Experimental Researches in Electricity -- Eighteenth Series" (pp. 17-32), #27500 "Experimental Researches in Electricity -- Nineteenth, Twentieth & Twenty-First Series" (pp. 1-62), & #27505 "Experimental Researches in Electricity -- Twenty-Third Series" (pp. 171-188), #27508 which contains "Experimental Researches in Electricity -- Twenty-Fourth, Twenty-Fifth, Twenty-Sixth, & Twenty-Seventh Series" (pp. 1-116).

Also contains G. B. Airy's "Account of Pendulum Experiments Undertaken in the Harton Colliery, for the Purpose of Determining the Mean Density of the Earth" (Volume 146 pp. 297-355, 1856); William Thomson's "The Bakerian Lecture. On the Electro-dynamic Qualities of Metals" (pp. 649-751); and William Andrews' "On the Constitution and Properties of Ozone" (pp. 1-13). (#27530) SOLD

55. Faraday, Michael. **STEPS TOWARD ELECTRON DISCOVERY: "Experimental Researches in Electricity -- Eleventh, Supplementary Note, Twelfth, Thirteenth & Fourteenth Series"** (Philosophical Transactions of the Royal Society of London, Vol. 128 for the Year 1838 Part I & Part II, pp. 1-40, 79-82, 83-124, 125-168, 265-282). London: Royal Society of London, 1838. First Edition. ix, [1]-59, [1]-414, [8] pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Faraday makes an early step toward the discovery of the electron. In 1838, he passed an electrical current through a glass tube containing various gases, and noticed a strange "glow discharge" that occurred at both electrodes as he evacuated the tube. The glows extended from both electrodes for some distance as he increased the evacuation, but it never fully met at the middle. Also see our #27489 for Faraday's "Experimental

Researches in Electricity -- Fifteenth Series," # 27495 "Experimental Researches in Electricity -- Eighteenth Series" (pp. 17-32), & #27500 with Faraday's "Experimental Researches in Electricity -- Nineteenth, Twentieth & Twenty-First Series" (pp. 1-62), our #27503 which contains Faraday's "Experimental Researches in Electricity -- Twenty-Second Series" (pp. 1-41), our #27506 which contains "Experimental Researches in Electricity -- Twenty-Third Series" (pp. 171-188), #27508 which contains "Experimental Researches in Electricity -- Twenty-Fourth, Twenty-Fifth, Twenty-Sixth, & Twenty-Seventh Series" (pp. 1-116), #27513 "Experimental Researches in Electricity -- Twenty-Eighth & Twenty-Ninth Series" (pp. 25-56, 137-159), #27530 "Experimental Researches in Electricity --Thirtieth Series" (pp. 159-180),

Also contains, J. Frederic Daniell's article, "Fourth Letter on Voltaic Combinations, with Reference to the Mutual Relations of the Generating and Conducting Surfaces." (pp. 41-56)

Also contains Charles Wheatstone's article, "Contributions to the Physiology of Vision. Part the First. On Some Remarkable, and Hitherto Unobserved, Phenomena of Binocular Vision." (pp. 371-394). (#27486) \$750.00

56. Farr, William. **COMPUTERS & MEDICAL STATISTICS: "On the Construction of Life-Tables, Illustrated by a New Life-Table of the Healthy Districts of England"** (*Philosophical Transactions of the Royal Society of London, Vol. 149 for the Year 1859, pp. 837-878*). London: Royal Society of London, 1859. First Edition. vi, [4], 16, [1]-930 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

The first printing of William Farr's (1807-1883) preliminary report describing the use of the Scheutz calculator to prepare life tables, published five years before his English Life Tables, representing the very earliest application of computers to medical statistics..

Also contains Arthur Cayley's "A Sixth Memoir Upon Quantics" (pp. 61-90) and John Gassiot's "On the Stratifications in Electrical Discharges, as Observed in Torricellian and other Vacua.- Second Communication" (pp. 137-160). (#27540) \$750.00

57. Fizeau, Hippolyte. **FIZEAU EXPERIMENT: "Sur les hypothèses relatives à l'éther lumineux, et sur une expérience qui paraît démontrer que le mouvement des corps change la vitesse à laquelle la lumière se propage dans leur intérieur."** (*Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences, Vol. 33; pp. 349-355*). Paris: Gauthier-Villars, 1851. First Edition. 760 pp. 4to. Pages 721-760 are copies of the original but bound in at rear of library binding. Blue cloth board library binding with gold embossed titling, call numbers pasted to spine. Ink library stamp on title page of volume, clean within. Text in French. Very Good. Hardcover.

Hippolyte Fizeau's (1819-1896) paper on what became known as the "Fizeau Experiment" and the first description of the experiment measuring the speed of light in a moving medium, water. This experiment provided early support that light is a wave, not a particle. (#27670) \$300.00

58. Frankland, Edward. **"On a New Series of Organic Bodies Containing Metals"** (*Philosophical Transactions of the Royal Society of London, Vol. 142 for the Year 1852 Part I & II, pp. 417-444*). London: Royal Society of London, 1852. First Edition. viii, [1]-659, [1], 14 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-

library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains Michael Faraday's "Experimental Researches in Electricity -- Twenty-Eighth & Twenty-Ninth Series" (pp. 25-56, 137-159); Charles Wheatstone's "Contributions to the Physiology of Vision. Part the Second. On Some Remarkable, and Hitherto Unobserved, Phenomena of Binocular Vision (Continued), (pp. 1-17)" James Prescott Joule's "On the Air Engine" (pp. 65-82); George Gabriel Stokes' "On the Change of Refrangibility of Light" (pp.463-562). (#27516) SOLD

59. Freke, John; Cleland, Archibald. **"A Letter from Mr. John Freke, F. R. S. Surgeon to St. Bartholomew's Hospital to the Royal Society, Relating a Case of Extraordinary Exostoses on the Back of a Boy;" "A Description of Needles Made for Operations on the Eyes, and of Some Instruments for the Ears, by the Same."** (*Philosophical Transactions of the Royal Society of London, Vol. XLI For the Years 1739, 1740, 1741; pp. 269-370, 847-851.*)

London: Royal Society of London, 1744. First Edition. [4], [6], 873, [21] pp. 8vo. Library binding, tan leather spine with gold embossed titling, scuffing and tears where call numbers have been removed. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Quarter Leather.

Freke's observation and the earliest accurate description of myositis ossificans progressiva (Garrison & Morton 4731). Cleland's paper proposes remedies for deafness caused by obstructions in the auditory passages (Garrison & Morton 3355). (#26486) \$975.00

60. Gaskell, Walter H. **GASKELL'S NERVES: "The Croonian Lecture: On the Rhythm of the Heart of the Frog, and on the Nature of the Action of the Vagus Nerve"** (*Philosophical Transactions of the Royal Society of London, Vol. 173 for the Year 1883, Part III, pp. 993-1033*). London: Royal Society of London, 1883. First Edition. iv, [4], viii, 751-1419 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

"Gaskell's classical memoir on the muscles and nerves of the heart included a description of 'Gaskell's Nerves,' the accelerator nerves of the heart. He showed that the motor impulses from the nerve ganglia to the sinus venosus influence the heart rhythm but do not originate cardiac movements, which are due to the rhythmic contraction of the heart muscle." (GARRISON-MORTON 829) (#27574) \$250.00

61. Gassiot, John P. **CATHODE RAYS II: "On the Stratifications in Electrical Discharges as Observed in Torricellian and other Vacua -- Second Communication"** (*Philosophical Transactions of the Royal Society of London, Vol. 149 for the Year 1859, pp. 137-160*).

London: Royal Society of London, 1859. First Edition. vi, [4], 16, [1]-930 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

John Gassiot's (1797-1877) second paper describing an early observation of cathode rays, continuing article in our #27535.

Also contains Arthur Cayley's "A Sixth Memoir Upon Quantics" (pp. 61-90) and William Farr's "On the Construction of Life-Tables, Illustrated by a New Life-Table of the Healthy Districts of England" (pp. 837-878). (#27539) \$750.00

62. Gassiot, John P. **CATHODE RAYS: "The Bakerian Lecture -- On the Stratifications and Dark Band in Electrical Discharges as observed in Torricellian Vacua" (Philosophical Transactions of the Royal Society of London, Vol. 148 for the Year 1858, pp. 1-16).** London: Royal Society of London, 1858. First Edition. v, [8], 21, [1]-909 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

John Gassiot (1797-1877) describes an early observation of cathode rays.

Also contains Arthur Cayley's "Memoir on the Theory of Matrices" & "A Memoir on the Automorphic Linear Transformation of Bipartite Quadric Function" (pp. 17-37, 39-52) and Joseph Lister's "An Inquiry Regarding the Parts of the Nervous System Which Regulate the Contractions of the Arteries," "On the Cutaneous Pigmentary System of the Frog," & "On the Early Stages of Inflammation" (pp. 607-625, 627-643, 645-702) (#27535) \$900.00

63. Gauss, Carl Friedrich. **Theoria Motus Corporum Coelestium in Sectionibus Conicis Solem Ambientium.** Gotha, Germany: Friedrich Andreas Perthes, 1871. As. 290, [3] pp. 4to. Recent, half-leather binding with brown leather spine, five raised bands, gold embossed titling, brown marbled paper boards. Interior clean and tight. Ex-library with two ink stamps on title page. Text in Latin. Fine. Hardcover.

This is the 1871 reprint of the first edition of 1809 that contains Johann Carl Friedrich Gauss's (1777-1855) famous calculations of the orbits of asteroids and other bodies orbiting around the Sun. Also included his description of least-squares. (#28442) \$400.00

64. Gauss, Johann Carl Friedrich. **PRINCIPLE OF LEAST CONSTRAINT: "Über ein neues allgemeines Grundgesetz der Machanik" (Journal für die reine und angewandte Mathematik 4 pp. 232-235, 1829).** Berlin, Germany: G. Reimer, 1964. Facsimile Edition. iv, 404, 3 plates at rear. 4to. Pages 13-28 misbound at rear between pages 392 & 393, complete. This is a facsimile edition of the original journal, published in 1829. Text in German. Fine. Hardcover.

Johann Carl Friedrich Gauss's (1777-1855) first published paper on his principle of least constraint. (#27618) \$125.00

65. Gilbert, William; Galilei, Galileo; Harvey, William; Adler, Mortimer (Editor). **Great Books of the Western World 28: Gilbert Gailleo Harvey.** Chicago, IL: Encyclopaedia Britannica, Inc., 1952. As. Volume of the Great Books of the Western World series. The following important titles in science make up this volume: "On the Loadstone and Magnetic Bodies" by William Gilbert; "Concerning the Two New Sciences" by Galileo Galilei; and "On the Motion of the Heart and Blood in Animals. On the Circulation of the Blood. On the Generation of Animals" by William Harvey. xiii, 496 pp. 8vo. Green cloth-covered boards with gold titling to spine. Clean within. Fine. Hardcover. (#25073) \$20.00

66. Graham, Thomas. **GRAHAM'S LAW: "On the Motion of Gases. Part II." (Philosophical Transactions of the Royal Society of London, Vol. 139 for the Year 1849 Part I & Part II, pp. 349-391).** London: Royal Society of London, 1849. First Edition. viii, [1]-647, 11 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

"Graham's law" states that the rate of effusion or diffusion of a gas is inversely proportional to the square root of its molecular weight, meaning that gases with a lower

molecular weight effuse more quickly than gases with a higher molecular weight. See also our #27501, Part I of Graham's Law, "On the Motion of Gases" (pp. 573-631)

Also contains Michael Faraday's "Experimental Researches in Electricity -- Twenty-Second Series" (pp. 1-41) (#27504) \$400.00

67. Grove, William Robert. **FIRST FUEL CELL: "On the Gas Voltaic Battery. Experiments Made with a View of Ascertaining the Rationale of Its Action and Its Application to Eudiometry" (Philosophical Transactions of the Royal Society of London, Vol. 133 for the Year 1843 Part I & Part II, pp. 91-112).** London: Royal Society of London, 1838. First Edition. viii, [1]-336, [2] pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Crumpling and tears to p. 37/38, does not impact this article. Very Good. Hardcover.

Faraday makes an early step toward the discovery of the electron. In 1838, he passed an electrical current through a glass tube containing various gases, and noticed a strange "glow discharge" that occurred at both electrodes as he evacuated the tube. The glows extended from both electrodes for some distance as he increased the evacuation, but it never fully met at the middle.

Also contains Michael Faraday's "Experimental Researches in Electricity -- Eighteenth Series" (pp. 17-32).

Also contains Charles Wheatstone's "The Bakerian Lecture--An account of several new instruments and processes for determining the constants of a voltaic circuit" (pp. 303-327). (#27496) \$450.00

68. Gurney, Ronald W.; Condon, Edward U.; Gamow, George. **QUANTUM TUNNELING: "Wave Mechanics and Radioactive Disintegration" and "The Quantum Theory of Nuclear Disintegration" (Nature 122; pp. 439, 805-806).** London: Macmillan and Co., 1928. First Edition. 1020 pp. 4to. Blue library binding, ex-Library with Royal College Naval Library bookplate on front pastedown, borrower's card slot glued to front pastedown, due date sheet pasted to first free endpaper. No other library markings present other than the number "53" in white ink at base of spine. Clean within. Very Good. Hardcover.

First appearance of Gurney and Condon's paper announcing that beta decay is made possible by quantum tunneling. First English printing of Gamow's paper announcing the same. This discovery led Gamow to later determine how quantum tunneling allows nuclear fusion to occur and how that powers the sun and stars. (#27369) \$300.00

69. Haas, Arthur; Verschoyle, T. (Translator). **Atomic Theory: An Elementary Exposition.** London: Constable & Company Ltd., 1927. First Edition. First English Edition. xiv, 222 pp. 8vo. Black cloth covered boards with scuffing and soiling, bumping to corners with some cloth loss, slight lean to text block, sunning to spine. Minor foxing within, prize winning inscription to previous owner in ink on front pastedown. Good. Hardcover. (#25102) \$30.00

70. Harris, Judith Rich. **No Two Alike: Human Nature and Human Individuality.** New York: W. W. Norton & Company, 2006. First Edition. First Printing. xi, 322 pp. 8vo. Clean, crisp copy with dust jacket in mylar cover. Fine in Fine dust jacket. Hardcover. (#28693) \$15.00

71. Heisenberg, Werner; Born, Max; Jordan, Pascual. **MATRIX MECHANICS THAT RESULTED IN THE FIRST SUCCESSFUL FORMULATION OF QUANTUM MECHANICS.** Heisenberg: "Über quantentheoretische Umdeutung kinematischer und mechanischer Beziehungen" (*Zeitschrift für Physik*: Volume 33, pp. 879-893); Born & Jordan: "Zur Quantenmechanik" (*Zeitschrift für Physik*: Volume 34, pp. 858-888); Born & Jordan: "Zur Quantentheorie aperiodischer Vorgänge" and "Zur Quantentheorie aperiodischer Vorgänge II. Bemerkung über die Integration der Störungsgleichungen" (*Zeitschrift für Physik*: Volume 33, pp. 497-505 & 506-508) -- 2 Volumes. Berlin, Germany: Julius Springer, 1925. First Edition. Vol. 33: vi, 950 pp. 8vo. Three quarter cloth binding with red cloth corners and spine, pattern paper inset front and read, leather gold embossed label at spine. Some scuffing overall with a clean interior. Ex-library with the occasional library stamp. Vol. 34: vii. 953 pp. 8vo. Text in German. Three quarter cloth binding with black cloth corners and spine, pattern paper inset front and read, gold embossed titling on spine. Some scuffing overall, front hinges at spine beginning to fray, a clean interior. Also ex-library with the occasional library stamp. Very Good. Three Quarter Cloth.

Heisenberg's quantum mechanics consisted of a set of tables containing pairs of Fourier terms describing the transition of electrons from one state to another. Heisenberg's quantum mechanics focused only on observables (radiation) rather than the unobservable electrons and their orbits.

Heisenberg was unsure of what he had conceived, so he shared his paper with Max Born prior to publication. Born recognized Heisenberg's breakthrough and supported publication, but also realized that the noncommutative multiplication in Heisenberg's formulation could be written more generally in terms of matrix calculus with the quantum mechanical tables becoming matrices.

The matrix mechanics resulting from these collaborations was the first successful formulation of quantum mechanics.

Prior to the development of matrix mechanics, Born and Pascual Jordan wrote a paper on the quantum theory of radiation and its dispersion and absorption that came close to providing a formulation of quantum mechanics. ("Zur Quantentheorie aperiodischer Vorgänge" and "Zur Quantentheorie aperiodischer Vorgänge II. Bemerkung über die Integration der Störungsgleichungen") This two-part paper provided a simplified mathematical derivation of the results of Van Vleck. As important, it was the first appearance of the notion of "difference operators" to replace differential equations. (#28710) \$1,700.00

72. Heisenberg, Werner; Scheel, Karl (Editor). **Zeitschrift für Physik, Volume 39.** Berlin, Germany: Julius Springer, 1926. First Edition. viii, 948 pp, 8vo. Volume is ex-library with brown patterned paper boards, lighter brown cloth spines and corner tips; gold embossed titling to spine. Wear to edges of cover boards where cloth has worn to reveal board beneath, hinge cloth beginning to split at front and rear cover but still tight to boards. Library stamps within, including stamps on title page of each volume, very clean with card pocket remaining on the rear pastedown of each volume. All text in German. Very Good. Hardcover.

"Über die Spektren von Atomsystemen mit zwei Elektronen" by Werner Heisenberg (pp. 499-518) outlines the experiment in which Heisenberg refined the principle of "exchange interaction". (#25533) \$300.00

73. Henderson, Archibald. **Relativity: A Romance of Science** University Extension Division University of North Carolina Extension Bulletin (Vol. II, No. 11; March 1, 1923). Chapel Hill, NC: The University of North Carolina Press, 1923. First Edition. 65 pp. Gray paper wraps with light chipping at edges, small tear beginning at top and bottom of covers front and rear, now in protective mylar dust jacket. Clean within. Very Good. Wraps. (#25087) \$40.00

74. Herschel, John F. W. **INVENTION OF THE PHOTOCOPY: "On the Action of the Rays of the Solar Spectrum on Vegetable Colours, and on some new Photographic Processes" (Philosophical Transactions of the Royal Society of London, Vol. 132 for the Year 1842 Part I & Part II, pp. 181-214).** London: Royal Society of London, 1842. First Edition. viii, [1], [1]-312, 16, [8] pp. 4to. Recent brown three quarter leather bindings with five raised bands at spine, burgundy title patch with gold embossed titling, gold lines offsetting bands, decorative stamp in each compartment without titling, blind embossed borders to front and rear boards. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

John Herschel (1792-1871) invented this form of photographic reproduction as a way to capture data that was beyond the limits of human vision. Although known in the scientific community, cyanotype photography did not come into commercial use until after Herschel's death when it was capitalized on commercially by the creation of the "blueprint" for architectural plans.

Also contains William Bowman's "On the Structure and Use of the Malpighian Bodies of the Kidney, With Observations on the Circulation Through That Gland" (pp. 57-80) and J. Frederic Daniell's: "Sixth Letter on Voltaic Combinations" (pp. 137-155)
(#29100) \$1,500.00

75. Herschel, William. **"On the Ring of Saturn, and the Rotation of the fifth Satellite upon its Axis;" "Miscellaneous Observations." (Philosophical Transactions of the Royal Society of London, Vol. 82 for the Year 1792, Part I & Part II, pp. 1-22, 23-27).** London: Royal Society of London, 1792. First Edition. iii-vi, [1], [1]-195, [1]-26, [iii]-v, [1], [197]-460, [8] pp. 4to. Library binding, tan leather spine with gold embossed titling, scuffing and tears where call numbers have been removed. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Quarter Leather.

Herschel's further observations of Saturn, includes a folding plate engraved by Basire illustrating three views of Saturn during its rotation.

This complete volume of papers by numerous authors on a variety of subjects including medicine, natural history, physics, mathematics and archaeology, illustrated with numerous plates. (#26557) \$475.00

76. Herschel, William; Morgan, William; Deluc, Jean-André. **"On Nebulous Stars, Properly So Called;" "On the Method of Determining, from the Real Probabilities of Life, the Values of Contingent Reversions in Which Three Lives are Involved in the Survivorship. By Mr. William Morgan, F. R. S.;" "A Second Paper on Hygrometry." (Philosophical Transactions of the Royal Society of London, Vol. LXXXI (81) for the Year 1791 Part I & Part II, pp. 71-88, 246-277, 389-421).** London: Royal Society of London, 1791. First Edition. iii-vi, [1], [1]-127, [1]-26, [iii]-iv, [129]-438, [1] pp. 4to. Library binding, tan leather spine with gold embossed titling, scuffing and tears where call numbers have been removed. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Quarter Leather.

Herschel's early report on nebulous stars.

Third actuarial paper by Morgan, following on his papers published in Philosophical Transactions Volume LXXVII & LXXIX. Also, Deluc's follow-up paper on hygrometry to supplement his original paper published in Philosophical Transactions Volume LXIII in 1774.

This complete volume of papers by numerous authors on a variety of subjects including medicine, natural history, physics, mathematics and archaeology, illustrated with numerous plates. (#26556) \$600.00

77. Hoffmann, August Wilhelm von. **ISOLATION OF BENZENE FROM COAL TAR: "Ueber Eine Sichere Reaction auf Benzol"** (*Annalen der Chemie und Pharmacie: Volume 55, pp. 200-205*). 1845. First Edition. 370 pp. 8vo. Green marbled paper boards with black cloth spine and gold embossed titling, light scuffing from shelf wear. Interior pages have age toning, otherwise quite clean. Very Good. Hardcover. (#27760) \$100.00

78. Holmes, Samuel J. **The Trend of the Race: A Study of Present Tendencies in the Biological Development of Civilized Mankind**. New York: Harcourt, Brace and Company, 1921. First Edition. 396 pp. Dark red cloth covered boards with gold embossed titling to spine. Light age toning to endpapers, previous owner's name in ink on first free endpaper, bookseller label on lower right corner of front pastedown. Very Good. Hardcover.

Early book on Eugenics by the American zoologist and eugenicist, Samuel Jackson Holmes. (#24518) \$25.00

79. Huggins, William. **STELLAR SPECTRUM PHOTOGRAPHY: "On the Photographic Spectra of Stars."** (*Philosophical Transactions of the Royal Society of London, Vol. 171 for the Year 1880 Part I & Part II, pp. 669-690*). London: Royal Society of London, 1880. First Edition. x, 419 pp.; iv, 421-1092 pp. 51 plates. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains George H. Darwin's "Resonance Theory" of the creation of the Moon, "On the Secular Changes in the Elements of the Orbit of a Satellite Revolving About a Tidally Distorted Planet." (#29096) \$400.00

80. Hutton, James; Craig, G. Y. (Introduction). **The 1785 Abstract of James Hutton's Theory of the Earth**. Edinburgh, Scotland: Scottish Academic Press, 1987. First Edition. First Scottish Academic Press edition. xii, 30 pp. 8vo. Blue and gray marbled paper boards with faux vellum spine. Clean and crisp within. Very Good. Hardcover. (#25088) \$40.00

81. Jacques, Vincent; Wu, E.; Grosshans, Frederic; Treussart, Francois; Grangier, Philippe; Aspect, Alain; Roch, Jean-Francois. **"Experimental Realization of Wheeler's Delayed-Choice Gedanken Experiment"** (*Science 315 No. 5814 pp. 966-968, February 6, 2007*). Washington DC: National Association for the Advancement of Science, 2007. First Edition. 897-1036 pp. 4to. Magazine with mailing label and light scuffing from shelf wear. Very Good. Wraps.

Archibald Wheeler (1911-2008) made the first proposal for a delayed choice double-slit experiment in 1978. The experiment involved a removable detector screen behind the slits, and two telescopes behind the screen—one aimed at one slit and one at the other. The movable screen was far enough behind the slits so that it could be removed after the light passed through the slit(s) but before it arrived at the screen (hence the name

“delayed choice”). Wheeler’s experiment was finally carried out in 2007 by Alain Aspect and his colleagues and it demonstrated the predicted result. (#29036) \$495.00

82. Jeans, James Hopwood. **Through Space & Time**. New York: The Macmillan Company, 1934. First Edition. Third Printing. xiv, 224 pp. 8vo. Blue cloth covered boards with gold embossed titling to cover board and spine, light sunning to spine has faded both the cloth and titling. Clean within.

Publication of the Christmas Lectures of 1933 on scientific subjects given at the Royal Institution by Sir James Jeans. (#24440) \$20.00

83. [Jenkin, Fleeming]. **CORRECTION TO DARWIN'S THEORY "The Origin of Species" (The North British Review No. 92 pp. 149-171, 1867)**. New York: Leonard Scott Publishing Company, 1867. First Edition. 282, 282 pp. 4to. Three quarter leather binding with light tan corners and spine, gold embossed titling on dark black and dark red patches, five raised bands. Marbled paper insets to front and rear boards, marbled endpapers. Clean within. Very Good. Three Quarter Leather.

Fleeming Jenkin (1833-1885) was an English engineer and scientist who discovered and exposed an error in Darwin's statement of his Theory of Evolution. Not knowing about genetics, Darwin believed that evolution took place through the "blending" of inherited characteristics. Jenkin showed that this blending would lead to the inability of individual mutations to survive in the population. (#28384) \$500.00

84. Jevons, William Stanley. **“On the Mechanical Performance of Logical Inference” (Philosophical Transactions of the Royal Society of London, Vol. 160, pp. 497-518)**. London: Royal Society of London, 1870. First Edition. iv, [4], v, [2], 608, 50 [plates] pp. 4to. Recent brown three quarter leather bindings with five raised bands at spine, burgundy title patch with gold embossed titling, gold lines offsetting bands, decorative stamp in each compartment without titling, blind embossed borders to front and rear boards. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Pages were trimmed when rebound. Very Good. Three Quarter Leather.

Paper explains Jevons' theory of a "logical piano" that would operated in the same way as early computers developed in the 20th century. Jevons' plans for the "logical piano" illustrated in thirteen figures detailed on Plates XXXII-XXXIV. This full volume of papers by numerous authors on a variety of subjects including medicine, natural history, physics, mathematics and archaeology, illustrated with numerous plates. (#25915) \$1,500.00

85. Joule, James Prescott. **FINAL DETERMINATION OF THE JOULE: "New Determination of the Mechanical Equivalent of Heat" (Philosophical Transactions of the Royal Society of London, Vol. 169 for the Year 1878, pp. 365-383)**. London: Royal Society of London, 1878-1879. First Edition. iv, [2], v, [2], [1]-826 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

James Prescott Joule (1818-1889) presents the “last experimental research of any magnitude that Joule undertook” and includes the results of Joule's final experiments by the direct method of friction. In this paper, Joule presents his final measurement of the mechanical equivalent of heat. It is well worth noting that Joule chose the number ‘772.55’ as an inscription for his gravestone. ‘772.55’ is Joule’s climacteric measurement of the mechanical equivalent of heat – the one arrived at in this paper. Also see our #27506 for Joule's earlier paper, "On the Mechanical Equivalent of Heat" (pp. 61-82)

Also contains William Crooke's "The Bakerian Lecture: On Repulsion Resulting from Radiation. Part V" (pp. 243-318); see also our #27563, "On Attraction and Repulsion Resulting from Radiation" (pp. 501-527). (#27566) \$350.00

86. Joule, James Prescott. **"On the Air Engine" (Philosophical Transactions of the Royal Society of London, Vol. 142 for the Year 1852 Part I & II, pp. 65-82)**. London: Royal Society of London, 1852. First Edition. viii, [1]-659, [1], 14 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains Michael Faraday's "Experimental Researches in Electricity -- Twenty-Eighth & Twenty-Ninth Series" (pp. 25-56, 137-159); Charles Wheatstone's "Contributions to the Physiology of Vision. Part the Second. On Some Remarkable, and Hitherto Unobserved, Phenomena of Binocular Vision (Continued)" (pp. 1-17); Edward Frankland's "On a New Series of Organic Bodies Containing Metals" (pp. 417-444); George Gabriel Stokes' "On the Change of Refrangibility of Light" (pp.463-562).
(#27515) SOLD

87. Joule, James Prescott. **"On the Mechanical Equivalent of Heat" (Philosophical Transactions of the Royal Society of London, Vol. 140 for the Year 1850 Part I, pp. 61-82)**. London: Royal Society of London, 1850. First Edition. x, [1]-296 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Important paper in which Joule refines his calculation on the amount of energy he determined as the "expenditure of a mechanical force represented by the fall of 772 lbs. through the space of one foot." (p.82). He established the mean number at 772.692.

Also contains Michael Faraday's "Experimental Researches in Electricity -- Twenty-Third Series" (pp. 171-188). (#27506) \$1,500.00

88. Kalas, Paul; Graham, James R.; Chiang, Eugene; Fitzgerald, Michael P.; Clampin, Mark; Kite, Edwin S.; Stapelfeldt, Karl; Marios, Chistian; Krist, John. **HUBBLE TELESCOPE "Optical Images of an Exosolar Planet 25 Light-Years from Earth" (Science 322 No. 5906 pp. 1345–1348, November 28, 2008)**. Washington DC: National Association for the Advancement of Science, 2008. First Edition. 1287-1418 pp. 4to. Magazine with mailing label and light scuffing from shelf wear. Very Good. Wraps.

First optical imaging of an extrasolar planet by the Hubble telescope.
(#29035) \$250.00

89. Kleiner, Scott A. **The Logic of Discovery: A Theory of the Rationality of Scientific Research**. Dordrecht, The Netherlands: Kluwer Academic Publishers, 1993. First Edition. xii, 334 pp. 8vo. Clean, crisp copy with dust jacket in mylar cover. Fine in fine dust jacket. Hardcover.

Describes historical ways of doing science and proposes how to improve the scientific discovery process. (#24511) \$200.00

90. Laplace, Simon; Fourier, Joseph. **Annales de Chimie et de Physique, Tome XIII: "Sur la Diminution de la durée du jour par le refroidissement de la terre" and "Extrait d'un Memoire sur le Refroidissement seculaire du globe terrestre"** Paris: Chez Crochard, 1820. First Edition. 448 pp., 8vo. Quarter leather binding with brown leather spine and marbled boards.

Spine has four raised bands with black leather patch title with gold embossed titling. A very nicely executed later binding originally published in wraps. Light wear at edges. Ex-Library with small ink stamp on title page and at base of page 5. Very clean within. Fine. Quarter Leather.

Two papers by famous scientists describing theories of the cooling of the earth. Laplace's article, "Sur la Diminution de la durée du jour par le refroidissement de la terre" pp. 410-417, 1820; Fourier's article, "Extrait d'un Memoire sur le Refroidissement seculaire du globe terrestre" pp. 418-438. (#24467) \$225.00

91. Lebedev, Pyotr. **PRESSURE OF LIGHT: "Untersuchungen über die Druckkräfte des Lichtes" (Annalen der Physik: Vol. 6, pp. 433–458).** Leipzig, Germany: Johann Ambrosius Barth, 1901. First Edition. viii, 876 pp. 8vo. Recent brown three quarter leather binding with dark leather spine and corners, four raised bands at spine with gold titling. Interior clean with the only indication of ex-library being the "Withdrawn" stamp on the title page. Text in German. Very Good. Three Quarter Leather.

Pyotr Lebedev (1866-1912) used a very sensitive experiment to confirm Maxwell's prediction of the radiation pressure of light, and announced the finding at the World Physics Congress in Paris. (#27717) \$550.00

92. Lewis, E. P. (Editor); Faraday, Michael; Kerr, John; Zeeman, Pieter. **The Effects of a Magnetic Field on Radiation: Memoirs by Faraday, Kerr and Zeeman.** xvii, 102 pp. 8vo. Black cloth covered boards with yellow embossed titling to cover board and spine. Light fading to spine title. Previous owner's bookplate on front pastedown. Very Good. Hardcover. (#25089) \$100.00

93. Lister, Joseph. **INFLAMMATION: "An Inquiry Regarding the Parts of the Nervous System Which Regulate the Contractions of the Arteries," "On the Cutaneous Pigmentary System of the Frog," & "On the Early Stages of Inflammation" (Philosophical Transactions of the Royal Society of London, Vol. 148 for the Year 1858, pp. 607-625, 627-643, 645-702).** London: Royal Society of London, 1858. First Edition. v, [8], 21, [1]-909 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Joseph Lister's (1827-1912) articles investigate pigmentation in frogs and his explanation of inflammation. Although he did not develop the product, Lister's work in antisepsis led Joseph Lawrence to name the mouthwash Listerine after him in 1879

Also contains John P. Gassiot's "The Bakerian Lecture -- On the Stratifications and Dark Band in Electrical Discharges as observed in Torricellian Vacua" (Volume 148 pp. 1-16, 1858) and Arthur Cayley's "Memoir on the Theory of Matrices" & "A Memoir on the Automorphic Linear Transformation of Bipartite Quadric Function" (pp. 17-37, 39-52). (#27537) \$900.00

94. Lloyd, Seth. **"Universal Quantum Simulators" (Science 273 No. 5278 pp. 1073–1078, August 23, 1996).** Washington DC: National Association for the Advancement of Science, 1996. First Edition. 1017-1140 pp. 4to. Magazine with mailing label and light scuffing from shelf wear. Very Good. Wraps.

In 1996, Seth Lloyd proved that a universal quantum simulator was possible by showing that a quantum computer can be programmed to simulate any local quantum system efficiently. (#29037) \$495.00

95. Lockyer, J. Norman. **HELIUM IN THE SUN: "Spectroscopic Observations of the Sun. - No. II" (Philosophical Transactions of the Royal Society of London, Vol. 159 for the Year 1869, pp. 425-444).** London: Royal Society of London, 1869. First Edition. iv, v, [4], [4], 28, [1]-812 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

J. Norman Lockyer's (1836-1920) paper explaining his discovery of helium in the sun, a discovery that was made 25 years before helium was discovered on earth.

Also contains Thomas Andrews' "The Bakerian Lecture: On the Continuity of the Gaseous and Liquid States of Matter" (pp. 575-590). (#27557) \$600.00

96. Lockyer, J. Norman. **"Researches in Spectrum-Analysis in Connexion with the Spectrum of the Sun. I & II" (Philosophical Transactions of the Royal Society of London, Vol. 163 for the Year 1873, pp. 253-279, 639-658).** London: Royal Society of London, 1873. First Edition. iv, [2], iv, [4], [1]-662 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover. (#27561) \$250.00

97. Lockyer, J. Norman. **"Researches in Spectrum-Analysis in Connexion with the Spectrum of the Sun. No. III and IV" (Philosophical Transactions of the Royal Society of London, Vol. 164 for the Year 1874, pp. 479-494, 805-813).** London: Royal Society of London, 1874. First Edition. v, [4], [1]-818 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains William Crookes' "On Attraction and Repulsion Resulting from Radiation" and Latimer Clark's "On a Standard Voltaic Battery" (pp. 1 - 14). (#27565) \$300.00

98. Lockyer, J. Norman. **"Researches in Spectrum-Analysis in Connexion with the Spectrum of the Sun. No. V" (Philosophical Transactions of the Royal Society of London, Vol. 172 for the Year 1882, pp. 561-576).** London: Royal Society of London, 1882. First Edition. iv, v, [2], [1]-922 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also see our #27565, Lockyer's "Researches in Spectrum-Analysis in Connexion with the Spectrum of the Sun. No. III and IV" (pp. 479-494, 805-8130).

Also contains George H. Darwin's "On the Tidal Friction of a Planet Attended by Several Satellites, and on the Evolution of the Solar System" (pp. 491-535). (#27571) \$300.00

99. Mansfield, Charles Blackford. **BENZENE PRODUCTON FROM COAL TAR: "Untersuchung des Steinkohlentheers" (Annalen der Chemie und Pharmacie: Volume 69, pp. 162-180).** 1849. First Edition. 372 pp. 8vo. Green marbled paper boards with black leather spine and gold embossed titling that has chipped and faded, light scuffing from shelf wear. Interior pages have age toning, otherwise quite clean. Very Good. Hardcover. (#27761) \$100.00

100. Mantell, Gideon Algernon. **STUDY OF DINOSAURS BEGINS: "Memoir On a Portion of the Lower Jaw of the Iguanodon, and on the Remains of the Hylæosaurus and other Saurians, Discovered in the Strata of Tilgate Forest, in Sussex" and "On the Fossil Remains of Turtles, discovered in the Chalk Formation of the South-east England."** (Philosophical Transactions of the Royal Society of London, Vol. 131 for the Year 1841 Part I & Part II, pp. 131-151, 153-158). London: Royal Society of London, 1841. First Edition. viii, [1], [1]-10, [1]-312, [12] pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

See also our #27502 "On the Structure of the Jaws and Teeth of the Iguanodon" (pp. 183-202).

Also contains William Bowman's "Additional Note on the Contraction of Voluntary Muscle in the Living Body" (pp. 69-74) (#27492) \$400.00

101. Mantell, Gideon Algernon. **STUDY OF DINOSAURS CONTINUES: "Observations on some Belemnites and other Fossil Remains of Cephalopoda, discovered by Mr. Reginald Neville Mantell.." and "On the Structure of the Jaws and Teeth of the Iguanodon"** (Philosophical Transactions of the Royal Society of London, Vol. 138 for the Year 1848 Part I & Part II, pp. 171-181, 183-202). London: Royal Society of London, 1848. First Edition. x, [8], [1]-10, [1]-284, 14 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Includes numerous plates illustrating Mantell's paper.

See also our #27492 "Memoir On a Portion of the Lower Jaw of the Iguanodon, and on the Remains of the Hylæosaurus and other Saurians, Discovered in the Strata of Tilgate Forest, in Sussex" (Philosophical Transactions of the Royal Society of London, Vol. 131 for the Year 1841 Part I & Part II, pp. 131-151) (#27502) \$300.00

102. Matteucci, Carlo. **ELECTROCARDIOGRAPHY (EKG) FOUNDATION "Sur un phenomene physiologique produit par les muscles en contraction" (Annales de Chimie et de Physique 6 pp. 339-341, 1842).** Paris: Fortin, Masson, 1842. First Edition. 257-384 pp. 8vo. Brown paper wraps with chipping at edges but remarkably clean and intact given the age. Interior clean with many sheets uncut. Encased in custom cloth and leather pamphlet case. Very Good. Wraps.

First published account in original wraps of Carlo Matteucci's (1811-1868) experiment in which he discovers that each heartbeat of a frog is accompanied by an electrical signal. This discovery eventually forms the basis for electrocardiography (EKG). Figures 1 & 2 of dissected frog legs on folding plate at rear help to illustrate the theory. (#28386) \$750.00

103. Matteucci, Carlo. **ELECTROCARDIOGRAPHY (EKG) FOUNDATION "Sur un phenomene physiologique produit par les muscles en contraction" (Annales de Chimie et de Physique 6 pp. 339-341, 1842).** Paris: Fortin, Masson, 1842. First Edition. 512 pp. 8vo. Half leather binding with brown leather spine with gold embossed titling and paper patterned boards. Wear and losses to leather at head and foot of spine, losses at hinges. Marbled endpapers, clean within, slight darkening to folding plate of illustrations tipped in at rear. Very Good. Wraps.

First published account of Carlo Matteucci's (1811-1868) experiment in which he discovers that each heartbeat of a frog is accompanied by an electrical signal. This

discovery eventually forms the basis for electrocardiography (EKG). Figures 1 & 2 of dissected frog legs on folding plate at rear help to illustrate the theory.
(#28387) \$350.00

104. Maty, Paul Henry (Editor, Vol. I). **A General Index to the Philosophical Transactions from the First to the End of the Seventieth Volume; A Continuation to the Alphabetical Index of the Matter Contained in the Philosophical Transactions of the Royal Society of London (2 Volumes)**. London: Royal Society of London, 1787/1821/1833. First Edition. Volume I: Vol. 1-70. 801 pp. 8vo. Volume II: Vol. 71-110 & 111-120. 225, 101 pp. 4to. Library binding, tan leather spine with gold embossed titling, call number labels on each volume. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Pages were trimmed slightly when rebound. Very Good. Three Quarter Leather.

Complete printed indexes of Volumes 1-120 of the Philosophical Transactions of the Royal Society of London. Each index arranged in two formats, alphabetical by subject and alphabetical by author. Rare in having three complete indexes (in two volumes) covering the years 1665 to 1830, Vol I: 1665-1780; Vol. II 1781-1820 & 1821-1830.
(#26454) \$750.00

105. Maxwell, J. Clerk. **"The Bakerian Lecture: On the Viscosity or Internal Friction of Air and Other Gases" (Philosophical Transactions of the Royal Society of London, Vol. 156 for the Year 1866, pp. 249-268)**. London: Royal Society of London, 1866. First Edition. v, [4], 25, [1]-886 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains Arthur Cayley's "A Supplementary Memoir on the Theory of Matrices" (pp. 25-35). (#27556) \$450.00

106. Maxwell, James Clerk. **MAXWELL'S GAS THEORY: "On the Dynamical Theory of Gases" (Philosophical Transactions of the Royal Society of London, Vol. 157, pp. 49-88)**. London: Royal Society of London, 1868. First Edition. iv, [5], iv, [4], 26, 672, [7], 32 [plates] pp. 4to. Recent brown three quarter leather bindings with five raised bands at spine, burgundy title patch with gold embossed titling, gold lines offsetting bands, decorative stamp in each compartment without titling, blind embossed borders to front and rear boards. Interiors clean, ex-library stamp on verso of title page, and occurring sporadically within. Pages were trimmed slightly when rebound. Very Good. Three Quarter Leather.

One of James Clerk Maxwell's (1831-1879) most important papers outlining his theory of a new derivation of the distribution law of gas velocities tied directly to molecular collisions. It corrected and extended his 1860 paper and greatly strengthened the theory that gases (and, by extension, all forms of matter) are composed of molecules. The paper also introduced the concept of relaxation time to explain the diffusion of stress in fluids, providing a theoretical grounding for the kinetic theory of gases, explaining why the viscosity of a gas is independent of its density -- an unexpected result.
(#28113) \$1,850.00

107. Maxwell, James Clerk. **MAXWELL'S GAS THEORY: "On the Dynamical Theory of Gases" (Philosophical Transactions of the Royal Society of London, Vol. 157, pp. 49-88) -- Extract**. London: Royal Society of London, 1868. First Edition. 40 pp. 4to. Extract is bound in plain light blue wrappers. Very minimal age spots on title page, clean within. Very Good. Three Quarter Leather.

One of James Clerk Maxwell's (1831-1879) most important papers outlining his theory of a new derivation of the distribution law of gas velocities tied directly to molecular collisions. It corrected and extended his 1860 paper and greatly strengthened the theory

that gases (and, by extension, all forms of matter) are composed of molecules. The paper also introduced the concept of relaxation time to explain the diffusion of stress in fluids, providing a theoretical grounding for the kinetic theory of gases, explaining why the viscosity of a gas is independent of its density -- an unexpected result.

(#28728) SOLD

108. McLennan, Evan. **Cosmical Evolution: Critical and Constructive.** Corvallis, OR: Self Published/Gazette-Times Press, 1916. Second Edition. 490 pp. 8vo. Green cloth covered boards. Gold embossed sunning to spine has faded over time. Light wear and scuffing to edges. Small bookseller label at upper left corner of front pastedown, light age toning to endpapers, clean within. Very good. Hardcover.

Broad discussion of the history and nature of the universe. (#24431) \$35.00

109. Mond, Ludwig; Langer, Carl. **"A new Form of Gas Battery" (Proceedings of the Royal Society of London; Vol. 52, No. 46, pp. 296-304).** London: Royal Society of London, 1890. First Edition. vii, 553, lv pp. 8vo. Light brown library binding with gold embossed titling to spine, call number on paper tag at foot of spine, minor wear and scuffing overall. Ex-library bookplate of The University College of Wales Aberystwyth on front pastedown. Clean within and no evidence of additional stamping. Very Good. Hardcover.

German-English chemist and industrialist Ludwig Mond and English chemist Carl Langer built the first "useable" fuel cell in 1889 and came up with the term "fuel cell." The describe their invention for the first time in in this paper. Four illustrations of their fuel cell appear within the text. (#27105) \$375.00

110. Morgan, William; Price, Richard; Baillie, Matthew; Priestley, Joseph; Withering, W.; Keir, James . **"On the Method of Determining, from the Real Probabilities of Life, the Value of a Contingent Reversion in Which Three Lives are Involved in the Survivorship. By Mr. William Morgan, Communicated by the Rev. Richard Price, D. D. F. R. S.;" "An account of a particular change of structure in the human ovarium;" "Additional Experiments and Observations Relating to the Principle of Acidity, the Decomposition of Water, and Phlogiston." (Philosophical Transactions of the Royal Society of London, Vol. LXXIX (79) for the Year 1789 Part I & Part II, pp. 40-54, 71-78, 289-299).** London: Royal Society of London, 1789. First Edition. iii-vi, [1], [1]-138, v-vi, [139]-333 pp. 8vo. Library binding, tan leather spine with gold embossed titling, scuffing and tears where call numbers have been removed. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Quarter Leather.

An actuarial paper, an article on the development of the fetus, and a piece on phlogiston theory (the belief there was an element called phlogiston that was released during combustion).

This complete volume of papers by numerous authors on a variety of subjects including medicine, natural history, physics, mathematics and archaeology, illustrated with numerous plates. (#26554) \$600.00

111. Nernst, W. [Walther]; Barr, Guy (Translator). **The New Heat Theorem: Its Foundation in Theory and Experiment.** London: Methuen & Co. Ltd., 1926. First Edition. First English Edition. Translated from the Second German Edition. xvi, 281 pp. 8vo. Brown cloth covered boards with gold embossed titling to spine. Light bumping to corners, previous owner's name and date in ink on first free endpaper. Clean within. Very Good. Hardcover. (#24537) \$90.00

112. Paley, William; Brougham, Henry (Illustrative Notes); Bell, Charles (Supplementary Dissertations). **Paley's Natural Theology (2 Volumes)**. London: Charles Knight & Co., 1845. First Edition. iv, 230 pp., iv, 294 pp. Three quarter leather with brown leather at spine and corners, four raised bands with gold embossed titling that has faded, volume numbers still somewhat bright. Wear and chipping to covers, losses at corners, marble paper insets on each volume scuffed as well. Front pastedown of each volume split at gutter, text block still attached to cover board by cords. Good. Three Quarter Leather.

William Paley's famous and influential work, Natural Theology, with significant commentary. Published in four volumes, bound as two. (#24450) SOLD

113. Pauli, Wolfgang; Hund, Friedrich; Fermi, Enrico; Scheel, Karl (Editor). **Zeitschrift für Physik, Volume 36**. Berlin, Germany: Julius Springer, 1926. First Edition. vii, 951 pp, 8vo. Volume is ex-library with brown patterned paper boards, lighter brown cloth spines and corner tips; gold embossed titling to spine. Library stamps within, including stamps on title page of each volume, very clean with card pocket remaining on the rear pastedown of each volume. All text in German. Very Good. Hardcover.

“Über das Wasserstoffspektrum vom Standpunkt der neuen Quantenmechanik” by Wolfgang Pauli (pp. 336-363) in which Pauli outlines his theory of the hydrogen spectrum which contributed to the study of quantum mechanics; “Zur Deutung einiger Erscheinungen in den Molekelspektren” by Friedrich Hund (pp. 657-674) is his early paper on Molecular Orbital Theory; “Zur Quantelung des Idealen Einatomigen Gases” by Enrico Fermi (pp. 902-912) outlines what became known as Fermi-Dirac statistics. (#25532) \$950.00

114. Pearson, Karl. **CHI-SQUARED TEST: "On the Criterion that a Given System of Deviations from the Probable in the Case of a Correlated System of Variables is such that it Can Reasonably Be Supposed to have Arisen from Random Sampling" (The London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science [Fifth Series], Vol. 50, pp. 157-175)**. London: Taylor and Francis, 1900. First Edition. vi, [1], 624 pp. 8vo. Published with 5 plates, Plate 3 Missing, does not impact Pearson's article. Recent brown three quarter leather bindings with five raised bands at spine, burgundy and black title patches with gold embossed titling, gold lines offsetting bands, marbled paper insets to front and rear boards. Clean within. Very Good. Three Quarter Leather.

Karl Pearson's work introducing the “chi-squared” test of goodness of fit. (#27109) \$800.00

116. Pinker, Steven. **The Blank Slate: The Modern Denial of Human Nature**. London: Allen Lane/Penguin Press, 2002. First Edition. First UK Edition. Second Printing. xvi, 509 pp. 8vo. Clean, crisp copy with dust jacket in mylar cover. Fine in Fine dust jacket. Hardcover. (#28696) \$20.00

117. Planck, Max. **Vorlesungen Über Thermodynamik**. Leipzig, Germany: Verlag Von Veit & Comp., 1911. vii, 288 pp. 8vo. Burgundy cloth covered boards with gold embossed titling to cover and spine. Light scuffing to covers, minor sunning to spine. Front pastedown split at gutter, first signature of text block loosening from block, tender. Light foxing within. Text in German. Good. Hardcover. (#24539) \$55.00

118. Planck, Max; Vlasak, Weldon (Commentary). **Planck's Columbia Lectures** Abridged and Unabridged Versions With Commentary by Dr. Weldon Vlasak. Clatonia, NE: Adaptive Enterprises, 2005. As. 479 pp. 8vo. Clean, crisp copy. Fine. Trade paperback. (#25082) \$30.00

119. Potamian, Brother; Walsh, James J. **Makers of Electricity**. New York: Fordham University Press, 1909. First Edition. First Printing. iv, 404 pp. 4to. Red cloth covered boards with Fordham University seal impressed in gold on front board, gold tilting to spine. Ex-Library with call number label at base of spine. Borrower's card pocket attached to rear pastedown, minor library stamps here and there. Very Good. Hardcover.

Well known biographical history of electricity. Inscribed and signed by the primary author, Brother Potamian on the first free endpaper. (#24520) \$100.00

120. Poynting, J.H. (John Henry). **ORIGIN OF THE POYNTING VECTOR: "On the Transfer of Energy in the Electromagnetic Field."** (*Philosophical Transactions of the Royal Society of London, Vol. 175 for the Year 1884 Part I & Part II, pp. 343-361*). London: Royal Society of London, 1884. First Edition. x, 279 pp.; vii, 281-688 pp. 42 plates. 4to. Recent brown three quarter leather bindings with five raised bands at spine, burgundy title patch with gold embossed titling, gold lines offsetting bands, decorative stamp in each compartment without titling. Numerous folding plates that illustrate articles. Numerous pages throughout volume are brittle with small tears and losses at edges, a large tear at midpoint in the title page of Poynting's article. Pages were trimmed slightly when rebound. The occasional library stamp as it is an ex-library volume, rebound. Very Good. Three Quarter Leather.

John Henry Poynting's (1852-1914) paper outlining what would become known as Poynting's Theorem and the Poynting Vector. The theorem is a statement of energy conservation in the electromagnetic field. (#28792) \$475.00

121. Preece, William Henry. **THE EDISON EFFECT: "On a peculiar behaviour of glow lamps when raised to high incandescence"** (*Proceedings of the Royal Society of London, Vol. 38, pp. 219-230*). London: Royal Society of London, 1885. First Edition. ix, [1], 506 pp. 8vo. Green cloth bindings with burgundy title patch and gold titling to spine of each volume, call number handwritten in white ink at base of each spine. Wear and scuffing to both from library use. Ex-library with bookplate and library stamp on title page of each volume, some library stamps within. Numerous plates illustrate articles. Very Good. Hardcover.

William Henry Preece (1834-1913) confirmed Thomas Edison's experiments demonstrating thermionic emission and coined the term, "Edison effect." (#27362) \$250.00

122. Raman, C. V. **RAMAN SCATTERING: "A new Type of Secondary Radiation"** (*Nature; Vol. 121, No. 3048 pp. 501-502*). London: Macmillan and Co., 1928. First Edition. [1], xcvi-c, 489-506, v-xvi (Supplement), 507-524, ci-civ pp. 8vo. Original wraps with no outer wrap. Wear and chipping to edges, staining around staples from rust, small cellophane tape repair at base of spine on outer wrap. . Clean within. Very Good. Wraps.

Announces the "Raman Effect," the inelastic scattering of light, one of the most important indications of the quantum nature of light. C. V. Raman (1888-1970) received the 1930 Nobel Prize in Physics for this work. (#27731) \$600.00

123. Rayleigh, Lord [John William Strutt]. **PERCEPTION OF SOUND: "On the Amplitude of Sound-waves"** (*Proceedings of the Royal Society of London, Vol. 26 No. 181, pp. 248-249*). London: Royal Society of London, 1877. First Edition. ix, v, 569 pp. 8vo. Blue cloth binding with gold embossed titling to spine. Fine. Hardcover.

Rayleigh's seminal analysis of the perception of sound. Basis for his famous book on the topic "The Theory of Sound" (1877/1878). (#27435) \$300.00

124. Reed, Howard S. **Jan Ingenhousz Plant Physiologist. With a History of the Discovery of Photosynthesis (Chronica Botanica, Volume 11, Number 5/6).** Waltham, MA: Chronica Botanica Co., 1896/1949. First Edition. 285-396 pp. 4to. Light wear and scuffing paper covers, small tears at head of spine, previous owner's name stamped in ink on front cover and first free endpaper. Very Good. Wraps. (#26549) \$25.00
125. Reynolds, Osborne. **REYNOLDS NUMBER: "An Experimental Investigation of the Circumstances Which Determine Whether the Motion of Water Shall be Direct or Sinuous, and of the Law of Resistance in Parallel Channels" (Philosophical Transactions of the Royal Society of London, Vol. 174 for the Year 1884, pp. 935-982).** London: Royal Society of London, 1884. First Edition. iv, [2], viii, [1]-988 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.
Osborne Reynolds' (1842-1912) paper explaining what became known as "Reynolds Number," the ratio of inertial to viscous forces which he determined through his experiments of liquid through pipes. (#27569) \$350.00
126. Rice, James. **Relativity: An Exposition Without Mathematics.** New York: Robert M. McBride & Company, n.d.. First Edition. 1920s. 127, [1] pp. 12mo. Black cloth covered boards with red titling to spine. Light scuffing at edges, clean within. Very Good. Hardcover. (#25100) \$20.00
127. Ridley, Matt. **Nature Via Nurture: Genes, Experience, and What Makes Us Human.** New York: HarperCollins Publishers, 2003. First Edition. First American Edition. First Printing. 326 pp. Clean, crisp copy. Fine in Fine dust jacket. Hardcover. (#28698) \$10.00
128. Riemann, Bernhard. **Uber Die Hypothesen, Welche Der Geometrie Zugrunde Liegen.** Darmstadt, Germany: Wissenschaftliche Buchgesellschaft, 1959. First Edition. First Wissenschaftliche Buchgesellschaft Edition, reprinting Riemann's 24, [2] Index pp. 12mo. Light terracotta cloth covered boards with gold titling to spine. Clean, crisp copy with previous owner's signature in ink on first free endpaper. Text in German. Fine. Hardcover.
Translates to "On The Hypothesis Which Underlies Geometry" and originally delivered by Riemann in 1854. Riemann's work on "Riemann Geometry" was later used by Albert Einstein in the development of his theories. (#24463) \$30.00
129. Rohault, Jacques. **Traité de Physique.** Paris: A. Bruxelles, 1708. Second Edition. Vol. I: [24] Preface, 334, [2] pp. Vol. II: 348, [4] pp. 16mo. Full leather binding with five raised bands at spine, gold embossed titling, burgundy leather patch title. Both volumes were rebacked at a much earlier time in their lives, wear and scuffing typical for the age, small losses at board corners.. Eleven (11) trifold plates that key to text tipped in at rear of Volume I, five (5) in Volume II, all in Very Good condition. Very Good. Full Leather.
Second edition of Rohault's famous text on Cartesian natural philosophy. First edition published in 1671. (#24630) \$500.00
130. Royal Society of London. **Philosophical Transactions of the Royal Society of London, Vol. 161 For the Year 1871.** London: Royal Society of London, 1871. First Edition. iv, [4], iv, [4], [1]-726, pp. 4to. Library binding, tan leather spine with gold embossed titling, scuffing. Interiors clean, ex-library stamp on title page and verso, also occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Quarter Leather.

This full volume of papers by numerous authors on a variety of subjects including medicine, natural history, physics, mathematics and archaeology, illustrated with numerous plates. (#27559) \$250.00

131. Royal Society of London. **Philosophical Transactions of the Royal Society of London, Vol. 162 For the Year 1872.** London: Royal Society of London, 1872. First Edition. iv, [4], iv, [4], [1]-501, pp. 4to. Library binding, tan leather spine with gold embossed titling, scuffing. Interiors clean, ex-library stamp on title page and verso, also occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Quarter Leather.

This full volume of papers by numerous authors on a variety of subjects including medicine, natural history, physics, mathematics and archaeology, illustrated with numerous plates. (#27560) \$250.00

132. Royal Society of London. **Philosophical Transactions of the Royal Society of London, Vol. 168 For the Year 1878, Part I.** London: Royal Society of London, 1878. First Edition. ix, [1]-579, pp. 4to. Library binding, tan leather spine with gold embossed titling, scuffing. Interiors clean, ex-library stamp on title page and verso, also occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Quarter Leather.

This full volume of papers by numerous authors on a variety of subjects including medicine, natural history, physics, mathematics and archaeology, illustrated with numerous plates. (#27534) \$250.00

133. Rutherford, Ernest. **Radioactive Substances and Their Radiations.** Cambridge, England: Cambridge University Press, 1913. First Edition. vii, 699 pp. 4to. Green cloth covered boards with gold embossed titling to spine, light bumping to corners. Just a hint of fraying at the head and foot of spine. Very clean within. Very Good. Hardcover.

This is Rutherford's second book on the topic, written almost a decade after his first work on the subject. Rutherford was knighted in 1914 and won the Nobel Prize for Chemistry in 1908 for his work on the chemistry of radioactive substances. (#24538) \$225.00

134. Rutherford, Ernest, Chadwick, James (Editor). **The Collected Papers of Lord Rutherford of Nelson. Volume Two: Manchester.** New York: Interscience Publishers, Inc., 1963. First Edition. First Interscience Publishers Edition. 590 pp. 8vo. Blue cloth covered boards with facsimile of Rutherford's signature embossed in gold on cover board, gold embossed titling to spine. Ex-Library with call number label on spine, stamps within and on foot of text block, card pocket on rear pastedown. Clean within. No dust jacket as issued. Very Good. Hardcover. (#25079) \$60.00

135. Schilpp, Paul Arthur (Editor). **Albert Einstein: Philosopher-Scientist** Volume VII in the Library of Living Philosophers. New York: MJF Books, 2001. Reprint. xviii, 781 pp. 8vo. Clean, crisp copy with dust jacket in mylar cover. Fine in fine dust jacket. Hardcover. (#25074) \$60.00

136. Schrödinger, Erwin. **Science and Humanism: Physics in Our Time.** Cambridge: Cambridge University Press, 1951. First Edition. 68 pp. 12mo. Light scuffing to dust jacket. Small tears at head and foot, browning to spine from sun, now in mylar cover. Red cloth covered boards with gold embossed titling to spine. Previous owner's name in ink on front pastedown, quite small. Clean within.

Discussion of causality in physics by the Nobel Laureate Erwin Schrödinger. (#24475) \$55.00

137. Schrödinger, Erwin; Trimmer, John D. (Translator). **SCHRODINGER'S CAT "Die gegenwärtige Situation in der Quantenmechanik" (Die Naturwissenschaften 23 pp. pp. 807-812; 823-828; 844-849, 1935) and "Translation of Schrödinger's 'Cat Paradox' Paper" (Proceedings of the American Philosophical Society 124 No. 5 pp. 323-338, October 10, 1980).** Berlin, Germany/Philadelphia, PA: Julius Springer/The American Philosophical Society, 1935/1980. First Edition. xix, 870, 12 pp. 4to. Three quarter leather binding with black corners and spine, gold embossed titling to spine, gray cloth inset into front and rear covers. Clean and crisp within. The American Philosophical Society Proceedings is in blue wraps in Very Good Condition with library stamp on top front and rear cover as well as top of some pages within. Very Good. Three Quarter Leather.

Erwin Schrödinger (1887-1961) proposed the Schrödinger's Cat thought experiment in this paper. Schrödinger used the thought experiment to illustrate what he saw as the problem of the Copenhagen interpretation of quantum mechanics when applied to everyday objects. In the course of developing this thought experiment, Schrödinger also coined the term "Verschränkung" ("entanglement"). (#28385) \$1,400.00

138. Sheldon, H. Horton. **Space, Time, and Relativity: The Einstein Universe.** New York: The University Society, 1935. First Edition. First Trade Edition. 104 pp. 8vo. Brown paper wraps, spine has chipped away revealing the signatures of the text block. Previous owner's address label on verso of front cover. Clean within. Good. Wraps. (#25086) \$20.00

139. Stokes, George Gabriel. **"On the Change of Refrangibility of Light. No II" (Philosophical Transactions of the Royal Society of London, Vol. 143 for the Year 1853 Part I & II, pp. 385-396).** London: Royal Society of London, 1853. First Edition. iv, [1]-566, [1]-15 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

For Part I, see our #27517, "On the Change of Refrangibility of Light" (pp. 385-396).

Also contains William Thomson's "On the Thermal Effects of Fluids in Motion" (Volume 143 pp. 357-365, 1853) and J. C. Adams' "On the Secular Variation of the Moon's Mean Motion" (pp. 397-406). (#27528) \$750.00

140. Stokes, George Gabriel. **"On the Change of Refrangibility of Light" (Philosophical Transactions of the Royal Society of London, Vol. 142 for the Year 1852 Part I & II, pp. 463-562).** London: Royal Society of London, 1852. First Edition. viii, [1]-659, [1], 14 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains Michael Faraday's "Experimental Researches in Electricity -- Twenty-Eighth & Twenty-Ninth Series" (pp. 25-56, 137-159); Charles Wheatstone's "Contributions to the Physiology of Vision. Part the Second. On Some Remarkable, and Hitherto Unobserved, Phenomena of Binocular Vision (Continued), (pp. 1-17)" James Prescott Joule's "On the Air Engine" (pp. 65-82); Edward Frankland's: "On a New Series of Organic Bodies Containing Metals" (pp. 417-444). (#27517) SOLD

141. Sykes, Bryan. **The Seven Daughters of Eve: The Science That Reveals Our Genetic Ancestry.** New York, NY: W. W. Norton & Company, 2001. First Edition. First US Edition. First Printing. Clean, crisp copy with dust jacket in mylar cover. Fine in Fine dust jacket. Hard Cover. (#28700) \$30.00

142. Thomson, William (Lord Kelvin). **"A Mathematical Theory of Magnetism" & "A Mathematical Theory of Magnetism. Continuation of Part I"** (*Philosophical Transactions of the Royal Society of London, Vol. 141 for the Year 1851 Part I*, pp. 243-268, 269-285). London: Royal Society of London, 1851. First Edition. x, [1], [1]-331, [1], clvii pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains Michael Faraday's "Experimental Researches in Electricity -- Twenty-Fourth, Twenty-Fifth, Twenty-Sixth, & Twenty-Seventh Series" (pp. 1-116) (#27510) SOLD

143. Thomson, William (Lord Kelvin). **JOULE-THOMSON EFFECT: "On the Thermal Effects of Fluids in Motion"** (*Philosophical Transactions of the Royal Society of London, Vol. 143 for the Year 1853 Part I & II*, pp. 357-365). London: Royal Society of London, 1853. First Edition. iv, [1]-566, [1]-15 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Thomson's important paper that explains what became known as the Joule-Thomson Effect: the change in temperature of a gas when passed through a porous plug or valve. Also known as the "throttling process."

Also contains George Gabriel Stokes' "On the Change of Refrangibility of Light.- No. II" (pp.385-386) and J. C. Adams' "On the Secular Variation of the Moon's Mean Motion" (pp. 397-406). (#27527) \$750.00

144. Thomson, William (Lord Kelvin). **THE THOMSON EFFECT "The Bakerian Lecture. On the Electro-dynamic Qualities of Metals"** (*Philosophical Transactions of the Royal Society of London, Vol. 146 for the Year 1856 Part I & II*, pp. 649-751). London: Royal Society of London, 1856. First Edition. iv, [3], v, [1]-951 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Lord Kelvin (William Thomson) expands upon the Thomson Effect.

Also contains Michael Faraday's "Experimental Researches--Thirtieth Series" (pp. 159-180); G. B. Airy's "Account of Pendulum Experiments Undertaken in the Harton Colliery, for the Purpose of Determining the Mean Density of the Earth" (Volume 146 pp. 297-355, 1856); and William Andrews' "On the Constitution and Properties of Ozone" (pp. 1-13). (#27532) SOLD

145. Tomonaga, Sin-itiro; Oka, Takeshi (Translator). **The Story of Spin**. Chicago, IL: The University of Chicago Press, 1997. First Edition. First Printing. xii, 258 pp, 8vo. Clean, crisp copy. No dust jacket as issued. Fine. Hardcover. (#25080) \$60.00

146. Turing, Alan M. **The Word Problem in Semi-Groups With Cancellation**. Princeton, NJ: Princeton University Press, 1950. First Edition. *Annals of Mathematics, Second Series, Vol. 52, No. 2, September 1950.* pp. 491-505. 4to. Ex-Library. Red cloth library binding with gold embossed titling to spine, call number pasted at base, library stamp at head and fore-edge of text block. Library bookplate on front pastedown, card pocket at rear. Very clean within. Very Good. Hardcover.

Alan Turing's (1912-1954) last paper. Turing gained posthumous fame for his work in early computer theory and the practical application of those theories in the development of the Colossus computer that was responsible for the breaking the German Enigma codes during World War II. After the War, Turing began to contemplate his earlier paper, "On Computable Numbers, with an Application to the Entscheidungsproblem," (Proceedings of the London Mathematical Society, 2 (1937) 42 (1)) and his conclusion that the halting problem is unsolvable.

The Halting Problem is the problem in knowing if a machine programmed to solve a problem will finish running or continue running forever. Turing began to wonder if that same hypothesis would transfer to word groups--undoubtedly influenced by his work on the Enigma code breaking project at Bletchley Park during the War. This paper is Turing's conclusion that, in fact, his earlier paper was correct and that theory of the Halting Problem was also unsolvable with word problems.

Turing was back in the news with the November 2014 biopic, "The Imitation Game" with Benedict Cumberbatch as Alan Turing. (#26444) \$750.00

147. Tyndall, John. **GERM THEORY & TYNDALLIZATION I: "The Optical Department of the Atmosphere in Relation to the Phenomena of Putrefaction and Infection."** (*Philosophical Transactions of the Royal Society of London, Vol. 166 for the Year 1876 Part I & Part II, pp. 27-74*). London: Royal Society of London, 1876. First Edition. x, 741 pp. 99 plates. 4to. Recent brown three quarter leather bindings with five raised bands at spine, burgundy title patch with gold embossed titling, gold lines offsetting bands, decorative stamp in each compartment without titling. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. The occasional library stamp as it is an ex-library volume, rebound. Very Good. Three Quarter Leather.

John Tyndall (1820-1893) described his experiments with a hermetically sealed chamber in which the atmospheric dust had been allowed to settle; sterilized infusions protected within this chamber remained uninfected for months, while similar infusions exposed to air all showed bacterial growth. Tyndall's researches, along with those of Pasteur, dealt the final blow to the doctrine of spontaneous generation and advanced the understanding of Germ Theory. (#28789) \$500.00

148. Tyndall, John. **GERM THEORY & TYNDALLIZATION I: "The Optical Department of the Atmosphere in Relation to the Phenomena of Putrefaction and Infection."** (*Philosophical Transactions of the Royal Society of London, Vol. 166 for the Year 1876 Part I & Part II, pp. 27-74*). London: Royal Society of London, 1876. First Edition. x, 741 pp. 99 plates. 4to. Library binding, tan leather spine with gold embossed titling, scuffing and tears where call numbers have been removed. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Three Quarter Leather.

John Tyndall (1820-1893) described his experiments with a hermetically sealed chamber in which the atmospheric dust had been allowed to settle; sterilized infusions protected within this chamber remained uninfected for months, while similar infusions exposed to air all showed bacterial growth. Tyndall's researches, along with those of Pasteur, dealt the final blow to the doctrine of spontaneous generation and advanced the understanding of Germ Theory. (#28795) \$300.00

149. Tyndall, John. **GERM THEORY & TYNDALLIZATION II: "Further Researches on the Department and Vital Persistence of Putrefactive and Infective Organisms from a Physical Point of View"** (*Philosophical Transactions of the Royal Society of London, Vol. 167 for the Year 1877 Part I & Part II, pp. 149-206*). London: Royal Society of London, 1878. First Edition. v, 756 pp. 31 plates. 4to. Recent brown three quarter leather bindings with five raised bands at spine, burgundy title patch with gold embossed titling, gold lines offsetting bands, decorative stamp in each compartment without titling, blind embossed borders to front and rear boards. Table of Contents has a horizontal tear mid-page on p.[v], triangular piece missing from lower right corner of p. 163. Interiors clean. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

John Tyndall (1820-1893) found that increasing temperature on objects killed or reduced the number of endospores produced by bacteria that lead to infection. The autoclave was developed out of this research and Tyndall's work, along with Louis Pasteur, advanced the understanding of Germ Theory.

Also contains W. G. Adams & R. E. Day's "The Action of Light on Selenium" (pp. 149-206). (#28540) \$1,500.00

150. Tyndall, John. **Six Lectures on Light Delivered in America in 1872-1873**. London: Longmans, Green, and Co., 1873. First Edition. 277 pp. 8vo. Burgundy cloth covered boards with blind embossed border to front and rear board, gold embossed tilting spine. Cover cloth has split along hinge on front board, tear across spine 1-3/4" from foot of spine, flapping but now in protective mylar cover. Small losses at head and foot of spine. Previous owner's name in ink on first free endpaper, clean within. Good. Hardcover.

Published form of lectures on science given by Tyndall in the United States. (#24432) \$25.00

151. van den Broek, Antonius; Soddy, Frederick; Rutherford, Ernest. **ATOMIC NUMBERS & FIRST USE OF TERM "ISOTOPE" : "Intra-Atomic Charge;" "Intra-Atomic Charge;" "The Structure of the Atom" by Ernest Rutherford (Nature; Volume 92, pp. 372-373, 399, 423)**. London: Macmillan and Co., 1913. First Edition. xl, 732 pp. 4to. Terracotta color publisher's binding with gold and black embossed titling and borders to cover board and spine. Ex-Library with Royal College Naval Library bookplate on front pastedown, borrower's card slot glued to front pastedown, due date sheet pasted to first free endpaper. No other library markings present other than the number "53" in white ink at base of spine. Clean within. Very Good. Hardcover.

In the first paper van den Broek proposes the concept of "atomic number." to explain how the periodic table should be organized. In the second paper Soddy agrees with van den Broek and coins the term "Isotope." In the third paper Rutherford agrees with van den Broek and Soddy. Also contains three papers discussing the application of Niels Bohr's atomic theory to the hydrogen atom: "The spectra of helium and hydrogen" by E. J. Evans (Nature 92 pp. 5-6, 1913); "The spectra of helium and hydrogen" by Alfred Fowler (Nature 92 pp. 95-96, 1913); "The spectra of helium and hydrogen" by Niels Bohr (Nature 92 pp. 231-232, 1913). (#27173) \$300.00

152. Weiner, Jonathan. **The Beak of the Finch: A Story of Evolution in Our Time**. New York: Alfred A. Knopf, 1994. First Edition. First Printing. x, 332 pp. Ex-library edition with markings throughout. Good in Good dust jacket. Hardcover. (#28702) \$10.00

153. Wheatstone, Charles. **"Contributions to the Physiology of Vision. Part the Second. On Some Remarkable, and Hitherto Unobserved, Phenomena of Binocular Vision (Continued)" (Philosophical Transactions of the Royal Society of London, Vol. 142 for the Year 1852 Part I & II, pp. 1-17).** London: Royal Society of London, 1852. First Edition. viii, [1]-659, [1], 14 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains Michael Faraday's "Experimental Researches in Electricity -- Twenty-Eighth & Twenty-Ninth Series" (pp. 25-56, 137-159); On Some Remarkable, and Hitherto Unobserved, Phenomena of Binocular Vision (Continued), (pp. 1-17)" James Prescott Joule's "On the Air Engine" (pp. 65-82); Edward Frankland's: "On a New Series of Organic Bodies Containing Metals" (pp. 417-444); George Gabriel Stokes' "On the Change of Refrangibility of Light" (pp.463-562). (#27514) SOLD

154. Wheatstone, Charles. **INVENTION OF THE STEREOSCOPE: "Contributions to the Physiology of Vision. Part the First. On Some Remarkable, and Hitherto Unobserved, Phenomena of Binocular Vision." Philosophical Transactions of the Royal Society of London, Vol. 128 for the Year 1838 Part I & Part II, pp. 371-394).** London: Royal Society of London, 1838. First Edition. ix, [1]-59, [1]-414, [8] pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Also contains J. Frederic Daniell's article, "Fourth Letter on Voltaic Combinations, with Reference to the Mutual Relations of the Generating and Conducting Surfaces." (pp. 41-56).

Also contains Michael Faraday's articles, "Experimental Researches in Electricity -- Eleventh, Supplementary Note, Twelfth, Thirteenth & Fourteenth Series" (Philosophical Transactions of the Royal Society of London, Vol. 128 for the Year 1838 Part I & Part II, pp. 1-40, 79-82, 83-124, 125-168, 265-282). Faraday makes an early step toward the discovery of the electron. In 1838, he passed an electrical current through a glass tube containing various gases, and noticed a strange "glow discharge" that occurred at both electrodes as he evacuated the tube. The glows extended from both electrodes for some distance as he increased the evacuation, but it never fully met at the middle. (#27488) \$750.00

155. Wheatstone, Charles. **WHEATSTONE BRIDGE: "The Bakerian Lecture -- An Account of Several New Instruments and Processes for Determining the Constants of a Voltaic Circuit" (Philosophical Transactions of the Royal Society of London, Vol. 133 for the Year 1843 Part I & Part II, pp. 303-327).** London: Royal Society of London, 1838. First Edition. viii, [1]-336, [2] pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Crumpling and tears to p. 37/38, does not impact this article. Very Good. Hardcover.

Also contains Michael Faraday's "Experimental Researches in Electricity -- Eighteenth Series" (pp. 17-32)

Also contains William Robert Grove's "On the Gas Voltaic Battery. Experiments Made with a View of Ascertaining the Rationale of Its Action and Its Application to Eudiometry" (pp. 91-112) (#27497) \$450.00

156. Wheeler, John A. **WORMHOLES & QUANTUM FOAM: "Geons" (Physical Review: Volume 97 No. 2 pp. 511-536)**. Lancaster, PA: The American Physical Society, 1955. First Edition. 255-570 pp. 4to. Green paper wraps that are clean and crisp. Very Good. Wraps.
In 1955, American theoretical physicist John Wheeler (1911–2008) coined the term "wormhole" and developed the now-familiar wormhole diagram and also used the term "quantum foam" for the first time. (#27454) \$300.00
157. Whiston, William. **A New Theory of the Earth**. New York: Arno Press, 1978. Facsimile Edition. [2], 388, [5], [2] ads. 8vo. Brown boards with blue embossed titling to spine and cover board. Light stain along foreedge of text block, interior clean and crisp. Fine. Hardcover.
A very nicely done facsimile reprint of Whiston's famous work on the origin and evolution of the earth. (#24489) \$250.00
158. Wolff, Caspar Friedrich. **Theoria Generationis (1759)**. Leipzig: Wilhelm Engelmann, 1896. As. 95, [2] pp. 12mo. Light wear and scuffing to covers, some chipping at edges, encased in custom mylar dust jacket. Folding plate illustration at rear. Text in German. Very Good. Wraps. (#26545) \$55.00
159. Wollaston, William Hyde. **DO THE EYES FOLLOW YOU? "On the Apparent Direction of Eyes in a Portrait." (Philosophical Transactions of the Royal Society of London, Vol. 114 for the Year 1824, Part I & Part II, pp. 247-256)**. London: Royal Society of London, 1824. First Edition. iv, 498, 10 [19] pp. 4to. Library binding, tan leather spine with gold embossed titling, scuffing and tears where call numbers have been removed. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Quarter Leather.
William Hyde Wallston indicates at the outset of his article that "portrait painting is not altogether a fit subject to be brought before the Royal Society..." but goes on to explain that his paper looks at the rules of perspective which is purely mathematical. Five plates follow the paper, with two having movable sheets to show shift in perspective. (#28794) \$300.00
160. Wollaston, William Hyde. **"Experiments on the Chemical Production and Agency of Electricity" (Philosophical Transactions of the Royal Society of London 91 pp. 427-434)**. London: Royal Society of London, 1801. First Edition. Extract. 427-434 pp. 8vo. Toning from age, slight chipping to spine. Very Good. Wraps.
English chemist William Hyde Wollaston (1766 - 1828) conducted experiments in 1801 that led him to propose that Volta's pile created electricity through a chemical reaction, the correct answer and contrary to the Volta's contact theory. (#29038) \$375.00
161. Wollaston, William Hyde. **"On a Periscopic Camera Obscura and Microscope." (Philosophical Transactions of the Royal Society of London, Vol. 102 for the Year 1812, Part I & Part II, pp. 370-377)**. London: Royal Society of London, 1801. First Edition. iii-[viii], [1]-227, [1]-26, [iii]-iv, [1], [229]-420, [11] pp. 4to. Library binding, tan leather spine with gold embossed titling, scuffing and tears where call numbers have been removed. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Quarter Leather.
Wollaston's paper outlines his development of the meniscus lens, a lens when used with the camera obscura flattened the image projected causing less distortion from the actual item being projected.

This complete volume of papers by numerous authors on a variety of subjects including medicine, natural history, physics, mathematics and archaeology, illustrated with numerous plates. (#26562) SOLD

162. Wolszczan, A. [Aleksander]; Frail, D. [Dale] A. **FIRST EXTRA-SOLAR PLANET: "A Planetary System Around the Millisecond Pulsar PSR1257 + 12" First Exoplanet.** (Nature; Vol. 355, No. 6356, pp. 145-147). New York: Macmillan Magazines, 1992. First Edition. Typical magazine format. Ex-Library with two library stickers affixed to front cover. Light scuffing. Clean within. Housed in a custom folding case with gold embossed titling to spine. Very Good. Wraps.

First published results of the discovery of first confirmed extra-solar planet.
(#24637) \$250

163. Yang, Chen Ning. **Elementary Particles: A Short History of Some Discoveries in Atomic Physics.** Princeton, NJ: Princeton University Press, 1962. First Edition. 68 pp. Light scuffing to dust jacket closed tear at head and foot of spine. Previous owner's name in ink on second free endpaper. Very Good in very good dust jacket. Hardcover. (#25104) \$30.00

164. Young, James; Forbes, George. **SPEED OF LIGHT: "Experimental Determination of the Velocity of White and of Coloured Light" (Philosophical Transactions of the Royal Society of London, Vol. 173 for the Year 1883, Part I & II, pp. 231-289).** London: Royal Society of London, 1883. First Edition. iv, [2], viii, [1]-749 pp. 4to. Library binding, tan leather spine with gold embossed titling. Interiors clean, ex-library stamp on title page, and occurring sporadically within. Numerous folding plates that illustrate articles. Pages were trimmed slightly when rebound. Very Good. Hardcover.

Another determination of the speed of light using an improved version of Fizeau-Foucault Apparatus. (#27573) \$300.00