1. **AINSWORTH, William Francis.** *A personal narrative of the Euphrates expedition.* London: Kegan Paul, Trench, & Co., 1888. Two volumes. 8vo. Complete with the folding map and publisher’s ads. Original publisher’s cloth. **First edition.** Ainsworth was appointed surgeon and geologist to the expedition to the Euphrates under Francis Rawdon Chesney, who was primarily interested in finding a new overland route to India. The four-year journey was arduous and included not only diplomatic and political opposition, but also the physical toll of carrying two steamboats piece by piece overland from the Mediterranean to the Euphrates River. Ainsworth’s account includes important descriptions of the expedition and the countries of the region including Syria, Persia, and Turkey, among others.

**$ 850.00**

2. **[ANONYMOUS].** *An earnest appeal to passionate people: wherein the rise, progress, and consequences of that unhappy disposition of mind are fully displayed; and the possibility of conquering that temper, illustrated from several characters in real life. To which is added, an essay on envy, malice, and detraction.* London: printed for W. Owen, 1748. 8vo. Wrappers. **First edition.** Advice for countering seemingly uncontrollable rage has been offered by ancient philosophers, pious men, and modern psychologists. The anonymous author, in addressing the problems associated with passion (or the “over-passionate” person), treats the condition as a “disease of the mind.” The mental issues, which (apparently) stem from pride, self-conceit and “want of thought,” are closely examined. Of particular interest is a discussion of nature versus nurture. Many suffer from this psychological malady as a hereditary condition; others, however, slowly sink into the despair brought on by bouts of anger by environmental reasons, which can happen at any time during one’s life.

**$ 2500.00**
THREE RARE SCIENTIFIC WORKS FROM ARISTOTLE

3. ARISTOTLE. Aristotelis stagyritae acroases physicae libri VIII. (bound with) Aristotelis stagyritae libri de coelo IIII . . . libri de generatione II . . . libri meteororum IIII. (bound with) Aristotelis stagyritae philosophi de anima libri III . . . de sensu & sensato liber I; de memoria & reminiscientia liber I; de somno & vigilia liber I; de longitutudine & breuitate vitae. Augsburg: Grimm & Wirsung, 1518; 1519; 1520. Three books in one. Folio. First title page in red and black; heraldic woodcuts on second and third titles. Final leaf, with large woodcut of Saint Catherine on colophon, is in facsimile on contemporary paper. Old vellum. This edition of Aristotle’s scientific and philosophical writings was brought together by Johann Eck (1486–1543) and here first printed in Augsburg by Grimm and Wirsung. This is also the first time the beautiful heraldic woodcuts were used. $ 8500.00

4. BACON, Francis. Sylva sylvarum. (bound with) New Atlantis. London: William Lee, 1631. Two works in one. Folio. Complete with frontispiece portrait of the author and the uncommon second engraved title. Contemporary calf. From the library of Secretary of State John Carteret, 2nd Earl of Granville. Third edition of Bacon’s collection of exceedingly significant scientific experiments and observations on natural history. The second work is Bacon’s highly acclaimed, yet unfinished, utopian novel, New Atlantis, which details the customs, people, society, and history of the fictitious island of Bensalem and the Salomon House, their cooperative college of science. $ 2500.00

THE MAMMALIAN OVUM

5. BAER, Karl Ernst von. De ovi mammalium et hominis genesi epistolam ad Academiam Imperialen Scientarium Petropolitanam. Leipzig: Leopold Voss, 1827. 4to. With half-title, corrigenda, and 1 full-page hand-colored engraved plate. Contemporary half calf over marbled boards. First edition of Baer’s famous discovery of the mammalian ovum, a classic in the history of embryology. “The notion that all animals come from eggs was pronounced by Harvey, and de Graaf proclaimed that the follicle named after him was really the mammalian egg. It remained for Baer to plot the course of ovulation and fertilisation from its later stages back to the ovary and there to identify the minute cell which was the ovum” (PMM). $ 38,000.00
PRECISION BOMBING
6. BELIDOR, Bernard Forest de. Le bombardier François. Ou nouvelle méthode de jeter les bombes avec precision. Paris: de l'Imprimerie Royale, 1731. 4to. Engraved frontispiece plus 8 folding engraved plates showing mortars, rockets, explosive charges, fireworks, etc., text tables. Contemporary calf. First edition. An essential work for use in combat, containing systematic firing tables. The author explains his methods of setting trajectories based upon the type of projectile being used, as well as the makeup of the hardware used to shoot the projectiles. The exquisite illustrations show the different type of cannon, bullets and mortars, loading material, and additional swagger that can be used. $ 850.00

SCIENTIFIC METHODS APPLIED TO AN ANCIENT ART

THE MATH EXAMS GIVEN AT CAMBRIDGE UNIVERSITY
8. [BESANT, William Henry]. Bound group of mathematical examination papers. [Cambridge]: St. John’s College, 1840’s-1850’s. Folio. With 1 page of Besant’s handwritten notes tipped in. Quarter calf with marbled boards. An extraordinary collection of mathematical examinations given to students at Cambridge, assembled by Besant during his years as a fellow of St. John’s College. These exams are from the first through third years of the Cambridge Mathematics Tripos from 1847-1859. There are 180 exams covering a wide range of topics: arithmetic and algebra; trigonometry; conic sections and algebraic geometry; mechanics; Newton; hydrostatics; optics; differential and integral calculus; solid and three-dimensional geometry; dynamics; astronomy; and much more. The students’ names on the exams include Besant (1828-1912, brother of novelist Walter Besant, and an acclaimed British mathematician), Isaac Todhunter, Thomas Bond Sprague, and Stephen Parkinson, all Senior Wranglers of the Tripos. $ 3500.00
THE FIRST PRINTED BOOK ON METALLURGY

9. BIRINGUCCIO, Vannuccio. *Pirotechnia*. . . . Venice: [Giovan Padoana], 1550. 4to. Title with elaborate woodcut illustrations of various machines and apparatus. Vellum-backed marbled boards; contemporary annotations throughout. **Second edition.** This was the first printed book dealing with metallurgy, “written for the practicing metallurgist, foundryman, dyer, type-founder, glass-maker, and maker of gunpowder, fireworks and chemicals used in warfare” (Dibner). Biringuccio here gives the earliest account of typecasting and the making of statues, medallions, and bells. “Agricola freely borrowed several sections of the *Pirotechnia* for use in his later work” (Hoover). The woodcuts depict furnaces for distillation, bellows mechanisms, and devices for boring cannon and drawing wire. According to Smith & Gnudi, the translators of the English edition (1942), this second edition is typographically superior to the first edition of 1540. $ 8500.00

CHEMISTRY AS AN EXACT SCIENCE

10. BLACK, Joseph. *Lectures on the elements of chemistry, delivered in the University of Edinburgh*. . . . Edinburgh: Mundell and Son, 1803. Two volumes. 4to. With 3 full-page engraved plates. Contemporary tree calf; pp. 737-762 are from another copy of the first edition, but are smaller. Ownership inscription of William Ogilvie Comstock dated June 14, 1894, New York; bookplate in each volume of Abraham Ludlow; bookplate of Arnold Thackray in Volume II. Overall an excellent copy, complete with the often-lacking index. **First edition.** Black, who occupied the chair of chemistry at Edinburgh for over thirty years, was one of the most popular and celebrated lecturers of the last half of the eighteenth century. As he did not publish his lectures or experiments, his colleague John Robison undertook this posthumous publication, adding valuable notes and a long preface. $ 3500.00

ONE OF THE EARLIEST COMPREHENSIVE TREATISES ON COMPARATIVE ANATOMY

11. [BLASIS (BLAES), Gerard; SWAMMERDAM, Jan]. *THE PRIVATE COLLEGE OF AMSTERDAM*. *Observationes anatomicae selectiores; Observationum anatomicarum . . . In quibus praecipue de piscium pancreate ejusque succo agitator. . . .* Amsterdam: Caspar Commelin, 1667-1673. Two parts in one. 12mo. Complete with two title pages, large folding engraved plate and 10 full-page and 1 double-page engraving. Full blind-tooled calf in an antique style; an excellent copy with the bookplate of Haskell Norman. **First edition,** extremely rare, of the “only publication of one of the earliest scientific societies” (G&M). The Private College of Amsterdam was devoted to comparative anatomical and physiological investigations of the lower vertebrates, concentrating primarily on fishes and mammals. This work contains the results of these investigations, as well as the first publication of Swammerdam’s early experiments with neuro-muscular physiology, as well as one of the earliest descriptions of mercury injection, an investigative method first employed by Malpighi. $ 8500.00
THE RARE FIRST EDITION IN ENGLISH

12. BOEHME, Jacob. *Mysterium magnum. An exposition of the first book of Moses called Genesis.* . . . London: M. Simmons for H. Blunden, 1654. Folio. Full calf in a contemporary style. **First edition in English** of Boehme’s masterpiece. His focus on the vision of the spiritual universe supports his detailed discussion of Genesis. This book became highly influential on generations of mystics, especially of the English school, where societies of Behmenites were formed.  $650.00

MASTERPIECE OF SCIENTIFIC LITERATURE

13. BOYLE, Robert. *The sceptical chymist; experiments and notes.* Oxford: Henry Hall for Ric. Davis, and B. Took, 1680. Two parts in one. 8vo. Contemporary paneled calf, rebacked. Overall an excellent copy, though lacking the rare advertisement leaf as in most copies. **First complete edition** (first printing of Part II, second edition of Part I) of the most famous book in the history of chemistry, “marking the beginning of the modern period of the science.” Boyle sets forth his corpuscular theory of the constitution of matter, which finally freed chemistry from the restrictions of the Greek concept of the four elements, and which became the forerunner of Dalton’s atomic theory. “The sceptical chymist is concerned with the relations between chemical substances rather than with transmitting one metal into another. In this sense the book must be considered as one of the most significant milestones on the way to the chemical revolution of Lavoisier” (PMM).  $24,000.00

ONE OF THE EARLIEST WORKS ON AIR POLLUTION

14. CAGNATI, Marsilio. *De Romani aeris salubritate commentarius.* Rome: Aloysium Zannetti, 1599. 4to. With 1 full-page and 1 text woodcut. Early vellum. Annotations throughout the text. From the library of historian Dorothy M. Schullian. **First edition** of this erudite and intellectually stimulating work on Roman air and its effects on health, certainly one of the earliest medical works on air pollution. From earliest antiquity through the twentieth century, the air in Rome has suffered a reputation of being unwholesome and unhealthy. Cagnati actually defends the quality of the air with arguments based on empirical and historical considerations. He provides a year-by-year summary of health conditions in Rome from 1568 to 1580, a compilation that clearly implies that he was keeping some kind of epidemiological record.  $2500.00

FIRST PUBLISHED MENTION OF OREGON

15. CARVER, Johnathan. *Travels through the interior parts of North-America in the years 1766, 1767, and 1768.* London: for the Author, 1778. 8vo. With 2 folding engraved maps and 4 engraved plates. Contemporary calf. **First edition.** Carver’s work, a classic of American travel, is one of the earliest and best accounts of pre-Revolution exploration. He “penetrated farther into the West than any other English explorer before the Revolution” (Howes).  $5000.00
CRYSTAL-OPTICS

16. CAUCHY, Augustin-Louis. *Mémoire sur la théorie de la lumière*. Paris: chez De Bure Frères, 1830. 4to. Sewn as issued; an excellent uncut and unopened copy. First edition of Cauchy’s rare and celebrated treatise containing his first theory of crystal-optics. The author also treats the matter of double refraction, and Fresnel’s sine and tangent laws of polarization by suitable boundary conditions, as well as the problem of spurious longitudinal vibrations.

$1500.00

THE FOUNDATION OF SCIENTIFIC BOTANY

17. CESALPINO, Andreas. *De plantis libri XVI*. Florence: Georgio Marescotti, 1583. 4to. Woodcut printer’s device on title and on the colophon, woodcut initials. Full calf; an excellent copy. First edition of the first “rational system of plant classification” (PMM). Cesalpino’s work became the foundation of scientific botany and the first articulation of the modern concept of species. With the knowledge of the existence of a greater number of plants, a method of scientific classification was needed. This era began with Cesalpino, who created his system of classification based upon plant morphology. The effect of this work was enormous, profoundly influencing botanists that followed, including Linnaeus.

$25,000.00

A NATION’S RESPONSIBILITY FOR PUBLIC HEALTH & WELFARE

18. CHADWICK, Edwin. *Report to Her Majesty’s principal Secretary of State for the Home Department, from the Poor Law Commissioners, on an inquiry into the sanitary condition of the labouring population of Great Britain; with appendices. (offered with) Supplement report on the results of a special inquiry into the practice of interment in towns*. London: Printed W. Clowes and Sons, 1842-1843. Two volumes. 8vo. Complete with 19 lithographed plates, including 3 colored maps. Publisher’s plum-colored cloth. First editions of “one of the most important documents of the first half of the nineteenth century. Its recommendation included, for the first time, national responsibility for drainage, cleaning of streets, paving, light and water supply, and a national health and burial service” (PMM). Chadwick points out the correlations between the lack of sanitation and disease, high mortality rates and low life expectancy, concluding that the problems had become not only a humanitarian but an economic crisis.

$1800.00

THE RESPONSIBILITES OF THE PRIESTHOOD

19. CHRYSOSTOMUS, Johannes. *Dialogi de dignitate sacerdotii*. [Cologne: Ulrich Zel, not after 1472]. 4to. Rubricated with red capitals and initials throughout. Half-calf over marbled boards. Dated bookplate of Gilbert R. Redgrave of Pollard & Redgrave (bibliographer, STC) on paste-down with his annotations and signature dated 1895 on the fly-leaf. An excellent copy with wide margins. Johannes Chrysostom (AD 348-407) is regarded as one of the “Fathers of the Eastern Church” and one of the greatest preachers of all time – a skill which earned him the cognomen Chrysostomos (“golden mouth”). This work is a lengthy dialogue on the priesthood, discussing on the manifold weighty responsibilities of priests, warning of the political pressures that bear on priestly elections, insisting that priests must be able to speak well in public, and comparing the life of a priest to that of a monk.

$20,000.00
SECOND EDITION OF COPERNICUS’
DE REVOLUTIONIBUS
THE FIRST WITH RHETICUS’
NARRATIO PRIMA
20. COPERNICUS, Nicolaus. De revolutionibus orbium coelestium, libri VI . . . Narratio prima, per M. Georgium Ioachimum Rheticum ad D. Ioan. Schonerum scripta. Basel: Heinrich Petri, [September, 1566]. Folio. Contemporary vellum. Second edition of Copernicus’ epochal work, the first to propound the theory of planetary orbits. Added here for the first time is Rheticus’ famous tract, Narratio prima, first published in 1540, containing the actual first announcement of Copernicus’s heliocentric system. $180,000.00

EARLY STRUGGLE TO ERADICATE SMALLPOX
21. COTUNNI (COTUGNO), Domenico. De sedibus variolarum. Naples & Bologna: Sancti Thomae Aquinatis, 1775. 4to. With 1 plate containing 8 engraved figures. Vellum-backed marbled boards. Third edition of Cotugno’s investigative report on the localization of variola pustules, the smallpox virus. Cotugno describes the history and pathology of smallpox as well as providing a comprehensive description of the virus and ways to prevent the disfiguration of the face. Smallpox became a true crisis during the second half of the eighteenth century, causing nearly half a million deaths. Cotugno’s contribution to the study of the disease came at the cusp of Jenner’s research and success with the smallpox vaccine, making this work an important part of the struggle to eradicate the disease from the modern world. $950.00

PRESENTATION COPY

THE GENESIS OF THE THEORY OF EVOLUTION
23. DARWIN, Charles, FITZROY, Robert, & KING, P. Parker. Narrative of the surveying voyages of His Majesty’s ships Adventure and Beagle. . . . London: Henry Colburn, 1839. Four volumes. Complete with 44 lithographed plates and all of the maps and charts. Original cloth. First edition, first issue recording the historic voyage of the Beagle, including Darwin’s Journal which forms the third volume of the Narrative, Darwin’s first published book. $85,000.00
FIRST EDITIONS OF DARWIN’S THREE BOOKS ON SOUTH AMERICA

24. DARWIN, Charles. (1). The structure and distribution of coral reefs. Being the first part of the geology of the voyage of the beagle, under the command of Capt. Fitzroy, R.N. during the years 1832 to 1836. London: Smith, Elder and Co., 1842. With 3 folding engraved maps. Recent cloth. (2). Geological observations on the volcanic islands visited during the voyage of H.M.S. Beagle, together with some brief notices of the geology of Australia and the Cape of Good Hope. Being the second part of the geology of the voyage of the Beagle. . . . London: Smith, Elder and Co., 1844. With the folding map entitled “A plan of the Island of Ascension” and 14 text woodcuts. Original publisher’s purple cloth. (3). Geological observations on South America. Being the third part of the geology of the voyage of the Beagle. . . . London: Smith, Elder and Co., 1846. 8vo. With an additional folding plate of shells at the end of the ads with the notation “Sowerby’s Fossils of British Strata.” With 1 folding map and 5 folding plates (1 hand-coloured). Original publisher’s cloth; an excellent copy. Three separate works. All first editions. These contain the records of Darwin’s observations during the voyage of the Beagle. The first volume records Darwin’s theory of the formation of coral reefs. The second work is his study of volcanic islands and is based on a wide range of rock and mineral specimens, including his own, and considerable research into contemporary theories of volcanic activity, mountain formation, and the elevation of extensive tracts of land relative to the sea. The final book on geological observations demonstrates the origin of metamorphic rocks by deformation and of the distinction between cleavage and sedimentary bedding, a major contribution to geology. $ 7,500.00

WITH THE FIRST MAJOR TEXTUAL CHANGES AND REVISIONS

25. DARWIN, Charles. On the origin of species by means of natural selection or the preservation of favoured races in the struggle for life. New York: D. Appleton and Company, 1860. 8vo. Original brown blind-stamped publisher’s cloth; in excellent condition. First American edition. This, the fourth issue, with the added three quotes, is the first of the American issues where the text has been considerably altered, revised and augmented by the author. In addition it contains the historical sketch, in its earlier and shorter form, as a preface, and a supplement of seven pages at the end. $ 8,500.00

A UNIQUE PERSPECTIVE OF CHINA AND ITS PEOPLE

26. DAVIS, John Francis. Sketches of China; Partly during an inland journey of four months, between Peking, Nanking, and Canton; with notices and observations relative to the present war. London: Charles Knight & Co., 1841. Two volumes. 12mo. With a folding map of China. Full polished calf, gilt spine and morocco spine labels. An excellent copy from the library of the great travel collector John Waldie. First edition of this important account of the customs, commerce, and political climate of China during the first Opium war beginning in 1839. This set covers a wide array of topics ranging from cultural observations about different cities and their neighborhoods to the celebration of the Emperor’s birthday, to Chinese military capabilities, and the tea and rice trade. $ 1,200.00

WITH DODGSON’S MANUSCRIPT CORRECTIONS

THE MOST FAMOUS THERMAL SPA IN EUROPE
28. Duccini, Giuseppe. *De' bagni di Lucca trattato chimico, medico, anatomico.* Lucca: Appresso Pellegrino Frediani, 1711. Two parts in one. 8vo. Contemporary vellum; an excellent copy. *First edition* of this well-known work on the famous thermal waters of Bagni di Lucca. Located near Florence, the spas at Bagni di Lucca have been the go-to resort for rest and restoration for centuries. Based on the firm conviction that “experience is the infallible teacher of truth,” the author describes the natural properties and wonderful virtues of the waters. His book becomes a fascinating journey into the characteristics and the chemical composition of the thermal waters, with a detailed description of its therapeutic use. The first part of the book describes each of the five spas that form the thermal complex of Bagni di Lucca, covering everything from the geology of the area to the architecture of the buildings. In the second part, Duccini examines both the different effects and cures of each spa, also explaining which diet is appropriate before bathing in the thermal waters.

$2500.00

EARLY MATHEMATICAL AND GEODESICAL PUZZLE
29. Dupin L. *Géométrie stéréométrique ou décomposition du cube en polyèdres réguliers, irréguliers et corps ronds; formant entre eux plus de 120 solides appliqués à l'étude de la géométrie, de la coupe des pierres, de la charpente et de la minéralogie.* [Paris: de Clérin (?) c. 1839]. Original mahogany box with twenty-seven polyhedrons and one cylinder, all of varying sizes with mathematical definitions or formulas printed on each side. A very rare and unusual early Victorian mathematical and geodesical puzzle, an inventive way to explain *stéréotomie*, the science of cutting materials used in construction, carpentry, or mineralogy. The individual pieces can be fit together in numerous patterns and shapes, and can be removed and examined to explain the geometry of cut stone or wood. This particular object was exhibited by the Boeringer Brothers at the Paris, 1839 *Exposition des produits de l'industrie Française.*

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FIRST STATEMENT OF SPECIAL RELATIVITY

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ONE HUNDRED YEAR ANNIVERSARY OF GENERAL RELATIVITY
31. Einstein, Albert. *Die Grundlage der allgemeinen Relativitätstheorie.* Leipzig: J. A. Barth, June, 1916. 8vo. Original printed wrappers on rippled paper. An uncut copy, ownership signature on the front wrapper, preserved in a half-morocco solander box. *First separate printing* of Einstein’s classic paper. Not an offprint from the *Annalen der Physik* as is often thought, but a completely new setting of type with significant and important additions and revisions, including an introduction published here for the first time which was not in the journal issue. It was in this paper that Einstein predicted gravitational waves, finally proven in 2014.

$8500.00

RELATIVITY EXPLAINED TO THE GENERAL PUBLIC

$950.00
EUCLID IN ART AND POETRY
33. EUCLID [ROGERS, Bruce]. Elements of geometry, book I. With an introduction from an essay by Paul Valéry. New York: Random House, 1944. 8vo. Diagrams throughout the book in beautiful and delicate colors of green, turquoise, orange, gold, red, rust, pink, toast salmon and lavender. Original black binding with silver lettering, in the original box. An uncut copy. First edition of this exquisite work, limited to 500 copies. Following the introduction, the first section contains a list of thirty-five definitions, three postulates, and twelve axioms; the remainder of the work sets out various problems and corresponding theorems.

$ 950.00

TWO EARLY DESCRIPTIONS OF SYPHILIS
34. FALLOPIUS, Gabriel. De morbo galllico [sic] liber absolutissimus a Petro Angelo Agatho Materate, (eo legente) scriptus . . . editis et scholiis marginalibus illustratus. Additus etiam est in calce de Morbo Gallico tractatus, Antonii Fracanciani Bononiae in loco eminantis scientiae faciliter legentis. Patavii: Lucam Bertellum; Christophorum Gryphium, 1564; 1563. Two works in one. 4to. Half-calf with paper boards. First edition of two rare treatises on syphilis. “In this classic work on ‘the French disease,’ Fallopius wrote more knowingly of the Europe-wide scourge of syphilis than previous authors on the subject and was one of the first to oppose the use of mercury in its treatment.” The second treatise on the same subject is by Fracanzano, who became professor of medicine at Padua in 1539.

$ 12,000.00

FROM THE MOST EXPERIENCED CAPTAIN SAILING THE EASTERN SEAS
35. FORREST, Captain Thomas. A voyage to New Guinea, and the Moluccas, from Balambangan: including an account of Magindano, Sooloo, and other islands; and illustrated with thirty copperplates. Performed in the Tartar galleon, belonging to the Honourable East India Company, during the years 1774, 1775, and 1776 to which is added, a Vocabulary of the Magindano Tongue. London: G. Scott, 1779. 4to. Engraved frontispiece portrait of the author plus 32 engraved plates and maps. Contemporary calf, rebacked. First edition of a truly amazing journey. Forrest here documents a trade journey he made on behalf of the East India Company, starts from a small settlement on the island of Borneo and sailed east to the northern coast of New Guinea. After exploring the passage between New Guinea and the Moluccas, he journeys to Mindanao, then back to Borneo and finally to the Malay Peninsula. More than just a geographic or ethnographic study, this travel narrative includes topics of interest for every collector. Forrest’s recollections include everything from his encounter with a wild boar that he fails to kill to descriptions of multi-day wedding ceremonies. He even devotes an entire chapter to the “Cinnamon Tree in Ceylon,” its properties, and medicinal uses, complete with a botanical illustration of cinnamon leaves. Full of maps and illustrated panoramas, detailed coastal charts, genealogical trees and lists of city populations or items exchanged with Chinese vessels, the book concludes with the very important English to Magindano and Papua vocabulary, supporting its popular use as a tool for other western traders.

$ 4000.00
THE FIRST FRENCH PATENT FOR AN INVENTION
-- THE HOLOMETRE --
36. FOULLON, Abel [Fullon, Fullone]. Descrittione, et uso dell’holometro. Per saper misurare tutte le cose, che si possono veder coll’occhio così in lunghezza, & larghezza; come in altezza & come in altezza & profondita . Venice: Giordano Ziletti, 1564. 4to. With 16 engravings. Old limp vellum. First Italian edition (after the first French edition of 1555) of a valuable treatise on the author’s newly invented quadrant for geometrical measuring and surveying. The device, which he named holometre, resembled a cross-staff, and was mainly intended for the delineation of cartographical maps and surveying. However, and of great interest, the instrument gave instant results, without the need for calculations in the age before logarithms. It is for this invention that Henry II granted the first ever patent in France to Foullon. $ 5000.00

INFANTILE SEXUALITY
37. FREUD, Sigmund. Drei Abhandlungen zur Sexualtheorie. Leipzig & Vienna: Deuticke, 1905. 8vo. Original printed wrappers; preserved in a clamshell box. First edition. Freud introduces here his epochal theory of infantile sexuality, which linked the forces motivating the development of body and mind from earliest infancy, a contribution of utmost value. $ 4500.00

GALILEO’S DEFENSE OF COPERNICUS
38. GALILEI, Galileo. Dialogo sopra i due Massimi Sistemi del Mondo Tolemaico, e Copernicano. Florence: Giovanni Battista Landini, 1632. 4to. Added engraved frontispiece by Stefano della Bella in fine facsimile on early paper. Contemporary vellum. First edition of Galileo’s statement and defense of the Copernican system of heliocentrism, which directly led to his trial for heresy in Rome in 1633. $ 40,000.00

DESTRUCTION OF PART OF THE FACE
WITH BEFORE AND AFTER PHOTOGRAPHS
39. GOLDENSTEIN, [Simon] Dr. Arêt de développement de la machoire inférieure. Moyens d’y remédier. Paris: Bailliere et Fils, 1879. (offered with) Destruction d’une grande partie du maxillaire supérieur de la lèvre et du nez. Moyens d’y remédier. Paris: Bailliere et Fils, 1882. Two separate works. 8vo. Each work with 2 original BEFORE AND AFTER PHOTOGRAPHS. Original printed wrappers. First and only editions of each work, extremely rare. Dr. Goldenstein separately reports on two of his surgical procedures to the Académie de Médecine de Paris. The first is a reconstruction of the upper jaw, mouth and nose of a 26 year-old woman; the second work deals with a 7 year-old girl who was missing most of her bottom teeth with the result that her jaw was severely deformed. $ 5500.00
ONE OF THE GREATEST ARGUMENTS IN SCIENCE:
THE CONTROVERSY OF THE COMETS

40. [GRASSI, Orazio]. Libra astronomica ac philosophica qua Galilaei Galilaei, opiniones de cometis a Mario Guiducio in Florentina Academia expositae, atque in lucem nuper editae, examinantur a Lothario Sarsio Sigensano. Perugia: Marci Naccarini, 1619. 4to. Engraved title vignette of one of the 1618 comets in the constellation of Libra. Antique calf in a contemporary style. **First edition** of Grassi’s extraordinarily important and bitter attack on Galileo’s theory of the nature of comets, later inspiring *Il Saggiatore.*

$ 24,000.00

ENABLING LONG-DISTANCE TELEPHONE SERVICE

41. HEAVISIDE, Oliver. *Electrical papers.* New York and London: Macmillan and Co., 1894. Two volumes. 8vo. Text illustrations. Original publisher’s cloth; an exceptionally good copy. **Scarce second edition** of Heaviside’s collected works in all aspects of practical and theoretical electricity. He deals with “theoretical aspects of problems in telegraphy and electrical transmission, making use of an unusual calculatory method called operational calculus, now better known as the method of Laplace transforms, to study transient currents in networks.”

$ 1500.00

MAKING THE MOST OF YOUR TULIPS

42. [HILL, John]. *A method of producing double flowers from single, by a regular course of culture.* London: R. Baldwin, 1758. 4to. With 8 large folding engraved plates. **First edition** of this extremely rare and little known work on tulips. He gives a detailed account of understanding the process of nature, as well as directions on how to double the flowers of many plants. Hill, though best known for his botanical works with which he introduced the classification system of Linnaeus into England, was certainly one of the most controversial figures in eighteenth-century England.

$ 4500.00

THE CASE FOR POLYGAMY

43. HILL, Richard. *The blessings of polygamy displayed, in an affectionate address to the Rev. Martin Madan; occasioned by his late work, entitled Thelyphthora, or, a treatise on female ruin.* London: J. Mathews, 1781. 8vo. Calf-backed blue paper boards. **First edition**. Hill responds to Rev. Madan’s book, published the prior year, in which he argues that monogamy can be harmful to women. That book was a serious and sincere attempt by a conscientious Methodist to advocate polygamy as a remedy for the causes of “female ruin” (i.e. whoredom, fornication, adultery, divorce, etc.). Hill states that “the doctrine it advances is totally repugnant,” pointing out the inconsistencies in both Old and New Testaments. He further examines specific customs of the Jewish people, treats Henry VIII, and discusses the opinions of such protestant divines as Luther and Melanchton. Commentary on lewdness and seduction, and the effects of those acts on women, further support Hill’s arguments against polygamy. A lengthy discussion of marriage is included, from Adam and Eve (who were not married by the way) to the Parliament’s Marriage Act.

$ 650.00
WITH EXPLICIT COLORED ILLUSTRATIONS

44. HONMA SOKEN (GENCHO). *Zoku hoka hiroku* (Additions to the secrets of treating skin growths). Edo: Izumiya Kinemon, 1859. Five volumes. Xylographically printed on double leaves. With numerous woodcut illustrations, mostly colored. Original light blue wrappers. **First edition** of Honma Soken’s medical treatments observed and recorded by his five pupils. With a focus on inflammatory tumors, it is an important work on gangrene with amputations, aneurysms, benign tumors such as external vesicles containing lymphatic fluid, penile infections, prolapse of the uterus and wounds of the female genitalia, and abortions or miscarriages. In addition, poisoning due to plants, fish, drugs, mushrooms and morphine smoking are also described with illustrations of malignant tumors and carcinoma of the esophagus. There are illustrations of tumors of the head, surgical instruments of the period with instructions for suturing, wounds of the face and head, and supportive bandaging – mostly illustrated with color woodcuts, as well as sections on dermatology and dentistry.

$2000.00

THE INTERIM PHILOSOPHICAL TRANSACTIONS

45. [HOOKE, Robert, ed.]. *Philosophical collections, containing an account of the physical; anatomical, chymical, mechanical, astronomical, optical, or other mathematical and philosophical experiments and observations as have lately come to the publisher hands*. . . . London: [John Martyn], Moses Pitt, and Richard Chiswell, 1679-82. Seven issues (all published) in one volume. 4to. With 7 engraved plates. Contemporary marbled boards. **First edition** of the complete *Philosophical collections*, printed in a very small edition, and now exceptionally rare. The death of the Royal Society’s secretary, Henry Oldenburg, in 1677 interrupted the publication of the *Philosophical transactions*. These scientific papers, edited by Hooke, were issued to fill the void until it resumed again in 1682. Included are contributions by Hooke, as well as Leeuwenhoek’s announcement of the “discovery of spermatozoa”; Lana’s “flying chariot”; Tyson’s *Anatomy of a porpess* (sic); and astronomical observations by Hevelius, Flamsteed, and Cassini on the eclipse of Jupiter by the moon in 1679 and 1681. In addition, discoveries by Moxon, Malpighi, Thomas Burnett, Edmund Halley, Bernoulli, and Leibniz are included.

$24000.00
CLASSICS IN THE HISTORY OF DENTISTRY

46. HUNTER, John. *A natural history of the human teeth: explaining their structure, use, formation, growth & diseases.* (bound with) *A practical treatise on the diseases of the teeth intended as a supplement to the natural history of those parts.* London: J. Johnson, 1771; 1778. Two works in one. 4to. Complete with the rare half-titles to both parts. With 16 copperplates, each with printed explanation leaf. Full calf in a contemporary style. **First edition** of each work. Hunter correctly described “the growth and development of the jaws and their relation to the muscles of mastication,” and was the first to recommend complete removal of the pulp in filling teeth. These two books “revolutionized the practice of dentistry and provided a basis for later dental research.” $7500.00

ANTI-NEWTONIAN COSMOGRAPHY

47. [HUTCHINSON, John]. *Moses's principia. Of the invisible parts of matter; of motion: of visible forms; and of their dissolution, and reformation.* With notes. London: J. Bettenham, 1724. (bound with) *Moses's principia. Part II. Of the circulation of the heavens. Of the cause of the motion and course of the earth, moon, &c.* Of the religion, philosophy, and emblems of the heathens before Moses writ, and of the Jews after. In confirmation of the natural history of the Bible. With notes. London: J. Bettenham, 1727. 8vo. Contemporary calf. **First edition**. During the period after publication of Newton’s *Principia*, and after it became more widely read, the number of groups of thought in opposition were many, and for many reasons. The major issue was theology; the *Principia* seemed to “undermine traditional doctrines of the Christian religion.” It is in Hutchinson’s work, *Moses's Principia*, that he attempts to defend his interpretation of the cosmology of the Bible, against that of Newton, and Dr. Samuel Clarke, who publicized Newton’s ideas in the Boyle lectures. Hutchinson also attacked Clark for his heterodox views on the Trinity as well as for his Newtonian natural philosophy. In *Moses's Principia*, Hutchinson explains how God accomplished the grand design of creation, and how the universe continued to function thereafter. In the second work, Hutchinson teaches that the Bible contained the elements not only of true religion but also of all rational philosophy. He held that the Hebrew must be read without points, and his interpretation rested largely on fanciful symbolism. $2500.00

THE LOGICAL MACHINE

48. JEVONS, William Stanley. *The principles of science: a treatise on logic and scientific method.* London: Macmillan & Co., 1874. Two volumes. 8vo. Frontispiece woodcut of the author’s logical machine and text diagrams. Original cloth. **First edition** of the author’s most valuable contribution to logic and methodology. Considered a landmark in the philosophy of science, this work contains practically all of the author’s fundamental ideas on logical doctrine, including his investigation of the principles of pure logic, analysis of induction, and discussion of the theory of probability and the relation between probability and induction. $1800.00
THE NATURE OF HEAT

49. JOULE, James Prescott. *The scientific papers*. London: The Physical Society of London, Taylor & Francis, 1884; 1887. Two volumes. 8vo. Frontispiece portrait, 7 plates, 1 large folding table, and numerous text illustrations. Original cloth. **First edition** of Joule’s collected works, containing the first appearance in a book of his most valuable paper, *On the caloric effects of magneto-electricity*, as well as his famous treatise, *The mechanical value of heat*. The first volume records the research for which he alone was responsible, while the second volume includes a number of projects which he carried out in association with Scoresby, Playfair, and William Thomson. **$850.00**

KEPLER’S TRUE GENEALOGY UNCOVERED

50. [KEPLER’S GENEALOGY]. Four items offered together related to Johannes Kepler (1571–1630) and his genealogy. 1. GRUNER, C. *Kepler's wahrer geburtsort*. Stuttgart: Emil Ebner, 1866. 8vo. With early mounted photograph as frontispiece. Printed wrappers. First edition of a pamphlet discussing the real and true birthplace of Kepler. This pamphlet attests that his true birthplace was in Weil der Stadt in the Stuttgart region of Germany. It also notes that proceeds from its sale will go to the upkeep of Kepler’s monument. 2. ROTTER, Dr. Fr. *Kepller-Geanologie*. Stuttgart: [n.p.], 1865. Broadside. Double columns. Description of Gruner’s research into Kepler’s genealogy. 3. GRUNER, C. *Kepler's Verwandtschatt*. Sauvar: [n.p.], 1865. Illustrated broadside. Delightful, colorful, and detailed illustration outlining Kepler’s genealogy and relations up through the nineteenth century. 4. BRANDSEPH, F. *Keplar's I Frau*. Nineteenth century salt print of Kepler’s first wife, Barbara, taken from a miniature. Excellent condition. **$750.00**

EARLY ANATOMICAL WOODCUTS

51. KETHAM, Joannes de. *Wundartzney zu allen Gebrechen des gantzen Leibs*. Frankfurt am Mayn: Herman Gullfrichen, 1549. 4to. With 4 large woodcut instruments on title, a large double page wound-man woodcut, and small woodcut of a zodiac man. Old German pasteboards. Early edition of this rare surgical treatise containing the first detailed anatomical illustrations ever printed. **$12,500.00**

RECONCILING GEOLOGICAL OBSERVATIONS WITH GENESIS

52. KIRWAN, Richard. *Geological essays*. London: D. Bremner, 1799. 8vo. An uncut copy in the original boards, fantastic condition. **First edition** of Kirwan’s attempt to reconcile his geological observations with the history of the earth as related in Genesis. The first part of the book comprises a basic primer of geology, with a substantial amount of chemical and mineralogical information. The final chapter contains a bitter attack on James Hutton’s geomorphological theory. **$1850.00**
RUSSIAN VISIT TO ALASKA AND SAN FRANCISCO

53. LANGSDORFF, G[eorg] H[einrich] von. Voyages and travels in various parts of the world, during the years 1803, 1804, 1805, 1806, and 1807. Carlisle: Printed by George Philips, 1817. Two parts in one. 8vo. in-4. Lacking the frontispiece, but with half-titles to each part present. Later quarter calf and marbled boards. First American edition (a reprint of the first English translation published in London, 1813-14). Langsdorff accompanied von Krusenstern’s 1803 first Russian expedition to circumnavigate the globe as a naturalist and physician, but parted ways with the crew in 1805, continuing on to explore the Aleutian Islands and Alaska. In 1806 he sailed from Sitka to the Spanish presidio at San Francisco. He provides detailed descriptions of the region and of his meeting with Commandant José Argüello. The visit resulted in the famed romance between Count Nikolay Rezanov of the Russian-American Company, who had traveled with Langsdorff, and Concepción de Argüello, the Spanish commander’s daughter, immortalized in literature by Bret Harte, Gertrude Atherton, and others throughout the years. Langsdorff also includes accounts of Brazil, Japan, Hawaii and Alaska. $3500.00

EARLY FEYERABEND IMPRINT ON PERSPECTIVE

54. LAUTENSACK, Heinrich. Des Cirkels unnd Richtscheyts, auch der Perspectiva, und Proportion der Menschen und Rosse kurtze, doch gründliche Underweisung des rechten Gebrauchs. . . . Frankfurt: [Georg Raben for Sigmund Feyerabend and Heinrich Lautensack], 1564. 4to. Title in red and black. With 3 folding woodcut plates, and 107 woodcut text illustrations. Old vellum. First edition of this rare treatise on perspective and draughtsmanship, important for its use by artists, architects, and goldsmiths. The woodcuts are all the author’s original work, though he was clearly influenced by Leonardo and Dürer. The work contains elements of linear geometry with a more detailed presentation of two-dimensional figures and the construction of stereometrical bodies. Another section on human proportion owes much to Dürer’s Vier Bucher von Menschlicher Proportion (1525) and also includes woodcuts illustrating the proper proportions of a horse. $14,500.00

THE MANY COLORS OF HUMAN SKIN

55. LE CAT, Claude-Nicolas. Traité de la couleur de la peau humaine en général, de celle des negres en particulier, et de la métamorphose d’une de ces couleurs en l’autre, soit de naissance, soit accidentellement. . . . Amsterdam, [s.n.], 1765. 8vo. Frontispiece by Gravelot, title in red and black. Contemporary tree calf. First edition of the author’s interesting speculation of human skin and its many colors. It is here that Le Cat discerned the black deposits which he called “aethiops” in the nerve tissues of animals. He was convinced that there was a relationship between humans and the environment, and conjectured that the source of Africans’ blackness were the aethiops, which were secreted directly into the skin from the tips of the cutaneous nerves. Le Cat was also of the opinion that peoples’ skin can change during their lifetime, and revert back the next generation. $1200.00
**INVENTION OF THE WAXED-PAPER NEGATIVE PROCESS**

56. LE GRAY, Gustave. *Nouveau traité théorique et pratique de photographie sur papier et sur verre, contenant les publications antérieures et une nouvelle méthode pour opérer sur un papier sec restant sensible huit a dix jours.* (bound after) *Nouveau traité théorique et pratique de photographie sur papier et sur verre.* . . . (bound with) *Supplément au catalogue de 1846 et prix-courant contenant les appareils les plus nouveaux de Lerebours et Secretan.* Paris: Germer Bailliére, etc., Juin, 1850; Paris: Lerebours et Secretan, [1851]; [Paris: Lerebours et Secretan], Janvier, 1850. 8vo. The catalogue contains numerous illustrations of photographic and related equipment. Contemporary half-calf and marbled boards. The rare first edition of Le Gray’s influential manual including instructions on the preparation of waxed-paper negatives, together with the greatly expanded second edition and a substantial catalogue of cameras and photographic equipment from the leading retailer of the period. $15,000.00

**UNITING THE COUNTRY DURING POLITICALLY TROUBLING TIMES**

57. [LOYAL PUBLICATION SOCIETY OF NEW YORK]. *Tracts issued by the Loyal Publication Society, from Feb. 1, 1863, to Feb. 1, 1864. Nos. 1 to 44; Nos. 45 to 78.* New York: By the Loyal Publication Society, 1864-1865. Two volumes. 8vo. Original printed wrappers bound in. Half-calf and cloth, calf-backed marbled boards. From the library of Admiral George Henry Preble. First editions of the complete set of pamphlets published by the Loyal Publication Society, whose purpose was to publish and distribute material “of unquestionable loyalty throughout the United States . . . in the army and navy, and in hospitals, thus to diffuse knowledge and stimulate a broad national patriotism, and to aid in the suppression of the Rebellion by the extinction of its causes, and in the preservation of the integrity of the Nation, by counteracting the efforts of the advocates of a disgraceful and disintegrating peace.” $7500.00

**A LOVELY COPY OF THE FIRST EDITION**

58. [MACQUER, Pierre Joseph]. *Dictionnaire de chymie, contenant la théorie & la pratique de cette science, son application à la Médecine & l'économie animale.* . . . Paris: Chez Lacombe, 1766. Two volumes. 8vo. Complete with the avertissement in Volume I and the half-title in Volume II. Contemporary cats-paw calf binding with gilt edges. First edition of Macquer’s most important work, the first dictionary of theoretical and general chemistry. This work was an instant success and inspired several editions and translations as well as many pirated copies. $1650.00

**LET THERE BE FIREWORKS**

59. MASTEN & WELLS FIREWORKS MFG. CO. *Catalogue and price list of fireworks, flags, balloons, lanterns, Fourth of July goods, etc. for 1913.* Boston: Masten & Wells Fireworks Mfg. Co., 1913. 16mo. Text illustrations of fireworks throughout. Original red wrappers. Delightful early twentieth-century catalogue containing descriptions and images of fireworks for sale, including prices. $400.00
60. MELLI, Sebastiano. *La comare levatrice istruita nel suo uffizio secondo le regole più certe, e gli ammaestramenti più Moderni.* Venice: Gio. Battista Recurti, 1750. 4to. With 20 plates (many with numerous figures). Contemporary vellum; an uncut copy with contemporary manuscript notes on the last blank leaf. **Third edition, greatly enlarged.** An important obstetric work which became a major reference in Italy throughout the nineteenth century. In the first part the author describes the female anatomy and that of conception. He goes on to discuss signs of virginity, fertility, and sterility. Additional sections deal with the unnatural birth, difficult labor, and abortion and the law, with an interesting explanation of the extraction of the placenta and cesarean section. Of particular interest, however, is a section on midwifery and the practice thereof. In a very forward-thinking manner, Melli states that midwives should not be practicing medicine as such, but should focus on their own field and should be able to work on their own, outside the supervision of a physician. $3500.00

61. MOORE, Sir Jonas; PERKINS, Peter; FLAMSTEED, John; HALLEY, Edmund. *A new systeme of the mathematicks.* . . . London: A[nne] Godbid and J[ohn] Playford 1681. Eight parts in two volumes. 4to. With 42 plates and 2 complete volvelles in Vol. I, 61 maps in Vol. II. Contemporary calf, rebacked. With numerous ownership annotations, including the stamp of W. Bayly, possibly the English astronomer who accompanied William Wales as astronomer on Cook’s voyages. **First edition** of this extraordinary work. The first section covers arithmetic and algebra, geometry, trigonometry, and cosmology, with six finely engraved star charts probably by Flamsteed (whose own star atlas was not published until 1729). Chapters on navigation, astronomy and geography follow. The engravings in this work are particularly outstanding, depicting numerous instruments as well as wonderful maps. $25,000.00

62. MORGAGNI, Giovanni Battista. *Epistolae anatomicae duae, novas observatione, & animadversiones complectens, quibus anatome augetur, anatomicorum inventiorum historia evolvitur, utaque ab erroribus vindicatur.* Leiden: J. à Kerkhem, 1728. 4to. Engraved title vignette. Contemporary vellum; an excellent uncut copy. **First edition** containing two anatomical essays detailing the anatomy and physiological functions of the liver. The author includes his newest contributions to the mechanical interpretation of the structure of the organism as well as some of the historical aspects on the subject. $1200.00
STILLMAN DRAKE’S COPY

63. [NEWTON, Isaac]. Opticks: or, a treatise of the reflexions, refractions, inflexions and colours of light. Also two treatises of the species and magnitude of curvilinear figures. London: Sam. Smith and Benj. Walford, 1704. Two parts in one. 4to. Title printed in red and black. With 19 folding engraved plates; the first 2 are in facsimile. Later cloth with gilt decorations on covers. Preserved in a folding clamshell box. From the library of Stillman Drake. First issue of the first edition, issued anonymously with only the initials “I.N.” at the end of the advertisements. Regarded as one of the great classics of optics, this work expounds Newton’s corpuscular or emission theory of light, and is the first work to contain his optical discoveries in a collected form. His set of sixteen “queries” on the nature of matter was considered to be the most important feature of the Opticks and had a profound influence on scientific thought. This work is also distinguished for containing Newton’s first printing of the two treatises on curvilinear figures, including his invention of “fluxional” calculus. His assertion of priority over Leibniz started a controversy which agitated mathematicians for nearly two hundred years.

$ 40,000.00

THE FIRST CONTINENTAL EDITION OF NEWTON’S PRINCIPIA

64. NEWTON, Sir Isaac. Philosophiae naturalis principia mathematica . . . editio ultima auctior et emendator. Amsterdam: Sumptibus Societatis, 1714. 4to. With folding engraved plate of cometary orbit facing p. 465, numerous woodcut diagrams in the text. Title printed in red and black with an engraved device. Contemporary vellum over boards. First Amsterdam edition of Newton’s epoch-making work, taken from the second printed edition (1713). It is in this edition of the Principia that Newton’s famous additions to the theory of the motion of the moon and the planets appear, as well as many other important additions and corrections. This rare printing includes Newton’s prefaces of May 8, 1686 and Mar. 28, 1713, as well as the preface of the editor, Roger Cotes.

$ 18,500.00

INVENTION OF THE CALCULUS

65. NEWTON, Sir Isaac. The method of fluxions and infinite series; with its application to the geometry of curve-lines . . . To which is subjoin’d, a perpetual comment upon the whole work, consisting of annotations, illustrations, and supplements, in order to make this treatise a compleat institution for the use of learners. London: Printed by Henry Woodfall; and sold by John Nourse, 1736. 4to. With engraved frontispiece, interpolated leaf [143-144], and leaf containing errata on the recto, publisher’s advertisements on the verso. Paneled sprinkled calf in a contemporary style; a large paper copy with very wide margins, a few contemporary annotations. First edition of Newton’s treatise on the calculus, a work of great importance and rarity. Ready for publication in 1671, it was not until 1736 that Method of fluxions was finally published in the present English translation by John Colson, who added a lengthy commentary.

$ 65,000.00

THE SOLVAY CONFERENCES

66. [NOBEL SCIENTISTS]. LANGEVIN, P. & DE BROGLIE, M. (Editors). La théorie du rayonnement et les quanta. Paris: Gauthier-Villars, 1912. 8vo. Recent cloth. From the library of Martin J. Klein, professor of the history of science at Yale, and the first recipient of the Abraham Pais Prize for the History of Physics. First edition. The publication that resulted from the first Solvay Conference of 1911 contains papers presented by Einstein (“L’état actuel du problème des chaleurs spécifiques; Weil, 52), Sommerfeld, Langevin, Nernst, Marie Curie, Perrin, Planck, Rubens, Warburg, Jeans and Lorentz (“Sur l’application au rayonnement du théorème de l’équipartition de l’énergie”), among others. This first conference on radiation and quanta examined applications from classical physics as well as quantum theory, and introduces a number of new concepts surrounding both theoretical and experimental work then being
tested. The Solvay Institute for Physics and Chemistry was founded by the Belgian industrialist Ernest Solvay in 1912, following the invitation-only 1911 conference which was attended by the world’s top scientists. *(offered with)* Électrons et photons. Paris: Gauthier-Villars, 1928. 8vo. Recent cloth. **First edition.** The fifth Solvay conference was perhaps the most famous, as it included luminaries such as Nobelists Einstein, Bohr, Bragg, Compton, Dirac, Schrodinger, Curie, De Broglie and Heisenberg. This was also the beginning of the Bohr-Einstein debates, a series of public disputes about quantum mechanics. $ 5200.00

FROM “THE MOST POPULAR MASTER OF THE SMALL SWORD IN LONDON”

67. OLIVIER, [J.]. Fencing familiarized: or, a new treatise on the art of sword play. . . . London: John Bell, [1771]. 8vo. Folding engraved frontispiece and 8 fine engraved plates. English and French text on facing pages. Cloth-backed boards; an excellent uncut copy with wide margins. **First edition** of Olivier’s masterful descriptions of various fencing techniques, illustrated with elegant engravings. It is a thorough work “containing a simplified system shorn of all unnecessary and obsolete details.” $ 1250.00

PAULI WORKS OUT SOME PROBLEMS FOR EINSTEIN

68. PAULI, Wolfgang. Manuscript. Three pages on two 8 ½ x 11 in. leaves. In German. Princeton, NJ: No later than 1945. The calculations in the first two pages relate to Einstein’s general theory of relativity. In a paper of June 19, 1945, Einstein had suggested a generalization of the mathematical foundations of general relativity, proposing to generalize the theory such that distances in space would be invariant (unchanging) not only under changes of the frame of reference (as in the original theory) but also under so-called Hermitian transformations. Pauli notes for Einstein (both were at the Institute for Advanced Studies at the time) that a restriction to Hermitian transformations is problematic, and he suggests an even more general transformation group, and thereby provides a generalization of the alleged structure of space and time that goes further than that proposed by Einstein in his 1945 papers. The third page, also in Pauli’s hand, is not directly related to the preceding pages, even though it, too, contains differential geometric calculations, related to curvature of space-time and which paths through space-time are the straightest ones. Thanks go to Dennis Lehmkühl of the Einstein Papers project for his help with translation. $ 65,000.00
UNIVERSAL APPLICATIONS OF PRACTICAL GEOMETRY

69. PERINI, Lodovico. *Trattato della pratica della geometria* . . . Verona: Pierantonio Berno, 1727. 4to. With numerous text woodcut illustrations (3 full page). Mottled calf. **First edition** of this rare and important treatise on geometry and its relation to land surveying techniques. In addition to a general introduction to the application of geometrical principles to methods of measuring the land, water, and solid objects of varying size, Perini also describes and illustrates many of the typical instruments used throughout Italy to map the land, buildings, and elevation using the distance and angles between points, including the cross sight, geometric square, and the plane table. An appendix includes specific information for surveyors, architects, and manufacturers. Of particular interest is the section on conversion between different units of measurement and calculations of distance used by various northern Italian cities, such as Verona, Padua, Venice, Fruili, Modena, and others, and the potential for problems in creating a standard system for surveying in Italy. $ 1800.00

SIGNED BY DULAC

PROVING THE VALIDITY OF NEWTON'S LAWS OF GRAVITY

71. POLENI, G[iovanni]. *De vorticibus coelestibus dialogus. Cui accedit quadratura circuli Archimedis, et Hippocratis Chii analytice expressus*. Padua: Conzatti, 1712. 4to. With 7 folding copperplates. Contemporary calf; stains on lower blank fore-edges of all leaves repaired. **First and only edition**, extremely rare. Poleni here critically discusses the polemic of the Newtonian response to the Cartesian vortex theory on planetary motion, which dictates that vortices explain the orbit of the planets. This differs from Newton’s theory, set forth in his *Principia*, which showed that the important and dramatic aspects of nature that were subject to the universal law of gravitation could be explained, in mathematical terms, within a single physical theory. The same laws of gravitation and motion rule everywhere; for the first time a single mathematical law could explain the motion of objects on earth as well as the phenomena of the heavens. Poleni takes it upon himself to discuss both sides of the issue, eventually defending the possibility that the law of universal gravitation can be valid even if it were accepted that there is a material fluid that fills the universe. $ 9500.00

THE FIRST ENGLISH WORK ON MICROSCOPY

72. POWER, Henry. *Experimental philosophy, in three books: containing new experiments, microscopical, mercurial, magnetical.* . . . London: Printed for John Martin and James Allestry, 1664. Three parts in one. 4to. With text woodcuts and 1 folding plate. Full calf in an antique style, interior excellent. Bookplate of Coward College Library on the paste-down (Coward College was one of three dissenting academies that ultimately came together to form New College in London). **First edition, first issue** (without errata), of the first English book on microscopy, a year before the publication of Hooke’s *Micrographia*, whose comments are mentioned in the text. The book is divided into three parts, including microscopical observations, mercurial experiments and magnetical experiments. Power details the microscopical world and his corpuscularian theory, the experiments of Italian physicist Evangelista Torricelli, and current experiments and theories related to vacuum. He further takes pains to refute the work of the anti-Copernican Jesuit Jacques Grandami. At the end is a short section entitled Subterraneous experiments: or, observations about coal-mines. $ 10,500.00

SATIRE ON MEDICAL EXPERIMENTS AND MODERN SCIENCE

73. QUIXOTE. *The philosophical Quixote; or, memoirs of Mr. David Wilkins. In a series of letters*. London: printed for J. Johnson, 1782. Two volumes bound together. 12mo. Contemporary diced russia. **First edition**. An epistolary novel, described by the *Critical Review* as “a very laughable attack on some of the late philosophical discoveries, and on the attempts which have been made to apply them to the purposes of medicine.” The quixotic hero, Mr. David Wilkins, is a middle-aged apothecary, who is subject to a passion for all things scientific. He performs experiments and brews concoctions in the name of philosophy with as much avidity as Don Quixote conquers his enemies in the name of chivalry, all of course to the neglect of his patients. The narrator is Wilkins’ assistant Harcourt, who in a series of letters regales his friend with anecdotes of his mentor. Electricity, galvanism, phlogiston, and agricultural chemistry are all the subject of ridicule. A great example of Wilkins’ experiments is related to the activities of his contemporary, Benjamin Franklin. The philosophical Quixote has invented electrical shoes, which he hopes will deter rain. He meets with complete failure. A fine read. $ 5500.00
HISTOLOGY OF THE NERVOUS SYSTEM

74. RAMÓN Y CAJAL, Santiago. Textura del sistema nervioso del hombre y de los vertebrados: estudios sobre el plan estructural y composición histológica de los centros nerviosos adicionados de consideraciones fisiológicas fundadas en los nuevos descubrimientos. Madrid: Moya, 1899-1904. Two volumes. 8vo. With hundreds of text illustrations from the author’s drawings. Contemporary morocco-backed marbled boards. **First edition.** One of the greatest works in the neurosciences, printed by subscription in an edition of only 800 copies. It is here that Cajal laid the cytological and histological foundations of modern neurology. His investigations confirmed the neuron doctrine first proposed by His and Forel, that dendrites receive impulses from other cells, the distinct functional pathways, the synapse, and included an authoritative description of the cerebral cortex leading to cytoarchitectonics. **$18,500.00**

75. RAMÓN Y CAJAL, Santiago. Chácharas de café: pensamientos, anécdotas y confidencias. Madrid: Librería de Nicolás Moyam, 1920. 8vo. Publisher’s burgundy cloth. **First and only edition,** very rare, of this book of meditations, often humorous, by the father of neuroscience. These chácharas (“chitchats”) were born from Cajal’s participation in tertulias at Café Suizo, once a locus of Spanish culture where intellectuals gathered daily for lively discussion. These ruminations recall the dialogues of “philosophers ancient and modern, from Plato and Epicurus to Schopenhauer and Herbert Spencer, and we rendered enthusiastic veneration to evolution and its high priests, Darwin and Haeckel, and abominated the satanic arrogance of Nietzsche” (Cajal). Written towards the end of his life, the text is divided into vignettes and anecdotal ruminations throughout eleven chapters which cleverly muse over love, immortality, death, education, conversation, politics, morality, and many other topics. **$4500.00**

CELEBRATED COLLECTION OF ARABIC MEDICINE

76. RUSTICUS, [Petrus Antonius]. Memoriale medicorum canonice practicantium. Pavia: Bernardino Garaldi, 28 July 1517. Five parts in one. 8vo. Each part with the epochal woodcut depicting St. Cosmas and St. Damian, patrons of physicians-surgeons, holding the urine flask, plus 3 smaller woodcuts. Also present are the 2 synoptic tables, disbound, usually lacking in most copies. Blindstamped sheepskin. **First edition** of Rusticus’ extremely rare Latin translation of the medical and pharmaceutical treatises of Avicenna, Rhazes and Mesue. A portion of the text contains the Venetian edition of the *Canon* from 1502, but of major significance here Rusticus provides his own commentary, which includes pragmatic aspects of contemporary medical practice. Of particular interest is the notable contribution of the author to both alphabetize and abbreviate, or summarize, much of the text for the purposes of easy learning and memorization. **$8500.00**
EXQUISITE COLOURED PLATES OF CACTUS

77. SCHUMANN, Karl & GÜRKE, Max. *Blühende Kakteen (Iconographia Cactacearum)*. Neudamm: J. Neumann, 1904-1921. Three volumes. 4to. With 176 chromolithograph plates. Original cloth. **First edition**, from the original forty-five parts, and one of the most beautiful works on cacti. A comprehensive look at almost two hundred flowering cactus species, with a strong representation of plants from Central and South America. $12,000.00

USING FORCEPS IN DIFFICULT DELIVERIES

78. SCHWARZSCHILD, Heinrich. *Zange oder wedung bei verengtem becken?* Frankfurt: Joh. Chr. Hermann, 1867. 8vo. Dark blue paper boards. **First and only edition** of this scarce book that explores the merits of forceps versus the “turning” method to assist difficult deliveries. Schwarzschild, a German physician who came from a prominent Jewish family, specialized in gynecology and in addition to his medical work was involved in a number of philanthropic pursuits, including the establishment of a Jewish hospital in Frankfurt. **(offered with)** ALS, 3 pp., written by Schwarzschild on his own letterhead and addressed to “Miss Fanny Cohn, care of S. Higgins.” August 28, 1872. $650.00

AN EPOCH-MAKING BOOK IN MEDICAL LITERATURE

79. SEMMELWEIS, Ignaz Philipp. *Die Aetiologie, der Begriff und die Prophylaxis des Kindbettfiebers*. Pest, Vienna, und Leipzig: C.A. Hartleben, 1861. 8vo. Contemporary cloth-backed marbled boards. **First edition** of one of the rarest of the great books in medicine. Few copies of this work have survived and ours is notable for being in excellent condition. $40,000.00

HONEST AND SCIENTIFIC INVESTIGATION OF BIBLICAL MIRACLES

80. STRACHEY, Edward Sir. *Miracles and science*. London: Longman, Brown, Green, and Longmans, 1854. 8vo. Morocco-backed original printed boards. **First edition**. Like so many modern, intelligent men, Strachey attempts to direct his readers to a comprehension of Biblical miracles based upon very pragmatic scientific reasoning. He investigates miracles of the Old Testament, considering the biblical text of creation, temptation, and the fall, discussing early historical books to modern astronomy and geology. New Testament events such as the gift of tongues, loaves and fishes, and the resurrection are examined. His conclusion that science will establish a more firm faith in the Christian religion is based upon a straight-forward discussion of scepticism and social pragmatism. Strachey was a close friend of Edward Lear and wrote the introduction to his *Nonsense songs*. $550.00

FIRST TREATISE ON CEREBROSPINAL MENINGITIS

81. STRONG, Nathan. *An inaugural dissertation on the disease termed Petechial, or Spotted Fever*. Hartford: Peter B. Gleason, 1810. 8vo. Unbound as issued. **First edition** of the first treatise published exclusively on what is now known as cerebrospinal meningitis. The work provides a brief time-line of the progress of the disease, outlines the effects of the disease on the functions of the body, and then proposes a number of causes and several treatments of symptoms. $3500.00
82. **[SWIFT, Jonathan]. GULLIVER, Lemuel.** *Travels into several remote nations of the world. In four parts. First a surgeon, and then a Captain of several ships.* London: Benj. Motte, 1727. Four parts in two volumes. 8vo. Complete with frontispiece portrait in volume 1, inscription within oval frame, 5 maps and 1 plate of symbols. Contemporary calf. Despite “second edition” on both title pages, Teerink cites this as the fourth octavo edition; three editions were published the prior year. These are the voyages of the Captain Gulliver, whose (unintended) mission was to seek out strange new places and peoples and to go where no man has gone before. Somewhat a satire and a parody on human nature, *Gulliver’s travels* has not been out of print since its first publication.

$ 6500.00


$ 1800.00

THE VERY RARE FIRST PRINTING OF ONE OF THE EARLIEST SWIMMING MANUALS (HOW WE ALL LEARNED TO SWIM)

84. **THÉVENOT, Melchisédech.** *L’art de nager, demontré par figures. Avec des avis pour se baigner utilement.* Paris: Thomas Moette, 1696. 12mo. With 35 full-page plates. Tree skin calf binding, gilt spine; an excellent copy. **First edition** of this extremely scarce treatise on swimming, considered one of the earliest books on the subject. Thévenot’s manual became the standard eighteenth-century reference for learning to swim. Among many topics, he discusses ways of getting into the water, various aquatic feats and maneuvers, and stroke technique. Following Thévenot’s description, the breaststroke became the most common swimming motion for centuries.

$ 7500.00
A RARE ASPECT OF PRINTING - DEATH ANNOUNCEMENTS

85. VAN DER AA, L. Lettres de décès. Brussels: Van Der AA, [ca. 1937]. Folio. Printer’s sample book with 43 tipped-in examples of funereal and memorial letters dated between 1898 and 1937. All edges surmounted with an inch of black banding, including the envelopes. Rare collection of interesting examples of death announcements and letters of condolence and sympathy, certainly a step above placing the same old notice in the obituary pages of the local newspaper. Letters are directed to family friends, acquaintances, the nobility and landed gentry, etc.; the text mentions the deceased (obviously), with the usual added supplements (loving husband, father, grandfather, uncle, etc.) Other information might include when and where the burial will take place and when mass will be celebrated. Of particular interest are the different ways of starting your letter (still is the most difficult part today). Van der AA (1899-1949?) was the printer and lithographer to the Court of Brussels. $ 1800.00

WONDERFUL WOODCUTS BY WEIDITZ

86. [VETERINARY MEDICINE]. Viehartznei. Erziehung, Gbrauch, Lernung, Arznei in züfeligen und natürlichen Krauckheyten, aller zahlen, dem menschen gebäuchlichen, und geheymen Thier und viehs. Frankfurt: Christian Egenolff [1535]. 4to. Woodcuts by Hans Weiditz depict a charming stockyard scene on the title page, and a trio of men with a horse on the first leaf (two of the three men have their eyes gouged out, presumably by a previous owner), plus 16 additional smaller text woodcuts of animals. Later vellum. First illustrated edition. Much of the text is focused on equestrian care and medicine, though the latter part of the treatise explains the husbandry and medical treatment of other livestock, including mules, donkeys, oxen, sheep, pigs, dogs and birds, along with a short section on apiculture. $ 12,500.00
HOMEOPATHIC PLANTS
87. VILLERS, A. von & THÜMEN, F. von. *Die Pflanzen des homöopathischen Arzneischatzes*. Dresden: W. Baensch, 1893. Three volumes (1 text, 2 atlas). 4to. With 200 hand-colored engraved plates. Publisher’s gilt pictorial cloth. **First edition** of probably the most beautiful homeopathic materia medica ever published. The fine plates are engraved and delicately hand-colored. For many homeopathic plants, this was the first time they had been illustrated in a published work. The edition was very likely quite small; outside of Germany, OCLC locates 5 copies in Europe and 7 in America (Harvard, NLM, Missouri Botanical Garden, College of Physicians, Universities of Washington, Wisconsin, Michigan). $ 12,500.00

THE VAN DER WALLS EQUATION ON THE STATE OF GASES AND LIQUIDS
88. WAALS, Johannes Diderik van der. *Over de continuitet van den gas-en vloeistoftoestand*. Leiden: A. W. Sijthoff, 1873. 8vo. Original printed wrappers. **First edition** of van der Waals’ classic dissertation on the continuity of gaseous and liquid states, and in which he introduced the “van der Waals equation” approximating the behavior of real fluids. This highly influential document, which changed the course of molecular physics, marked the beginning of a comprehensive molecular theory that was simplified using basic mechanics to explain the changes in states of liquids and vapors. $ 7500.00

THE EARTH BEFORE THE FLOOD
89. WARREN, Erasmus. *Geologia: or, a discourse concerning the Earth before the Deluge. Wherein the form and properties ascribed to it, in a book intituled The Theory of the Earth, are excepted against: and it is made appear, that the dissolution of that Earth was not the cause of the universal flood. Also a new explication of that flood is attempted*. London: R. Chiswell, 1690. 4to. With 4 text engravings. Half calf and marbled boards. **First edition**. This scarce treatise refutes Burnet’s theory of the formation of the Earth, and contains an interesting explanation on the state of metals and minerals before the flood. According to Woodard, this book contains the earliest published reference to geology in England. $ 3500.00

CREATING A SYSTEMATIC DEVELOPMENT OF THE SCIENCES
90. WHEWELL, William. *The philosophy of the inductive sciences, founded upon their history*. London: John W. Parker; Cambridge: J. & J. J. Deighton, 1840. Two volumes. 8vo. Large folding plate (“Inductive Table of Astronomy”). Later calf-backed marbled boards. **First edition** of Whewell’s most important contribution in which he attempts to map, define, and systematize the development of the sciences. Along with his *History of the inductive sciences*, this work helped to both mold and define the concept of science in the Victorian era. It is in his *Philosophy* that he attempts to build on foundations laid by Immanuel Kant and Francis Bacon. Whewell’s work was attacked by John Stuart Mill in his *System of Logic*, causing a debate between them over the nature of inductive reasoning in science, moral philosophy and political economy. $ 1800.00
“AN ALMOST UNEXPLORED COUNTRY”

91. **WHELER, George.** *A journey into Greece.* London: William Cademan, Robert Kettlewell, and Awnsham Churchill, 1682. 4to. With 5 full-page plates, a large folding map, and numerous text engravings. Modern quarter morocco and boards. **First edition** of this impressive and important account of the author’s travels through Greece and what is now Turkey, a work that possessed “the charm and value of a journey into an almost unexplored country” (DNB). The volume includes descriptions of Venice, Constantinople, Anatolia, Athens, Attica, Corinth, and many other locales. More than a simple travel narrative, Wheler also gives precise descriptions of what he encountered and collected, incorporating beautiful images of coins, monuments, cities, plants, and animals. $ 4500.00

92. **ZANCHI, Giovanni Battista.** *Del modo di fortificare le città.* Venice: Plinio Pietrasanta, 1554. 4to. Title within elaborate architectural border, separate leaf with portrait of the author, 17 decorative woodcut initials and 8 woodcut text illustrations (5 full-page). Bound in decorative modern boards. **First edition** of the first Italian book devoted exclusively to fortification of cities. $ 12,500.00

93. **ZONCA, Vittorio.** *Novo teatro di machine et edificii.* Padua: Pietro Bertelli, 1607. Folio. Engraved title and 42 full-page engravings. Contemporary vellum. **First edition.** This was the first of many works detailing and illustrating machinery. Zonca’s images, copied by many later writers, include inventions for mills such as a water mill running silk-spinners and a water-powered grain mill operated on a boat moored in a river, copper plating and printing presses, a barbeque spit turned by gears and a windmill, as well as a perpetual motion machine. $ 20,000.00
"NATURAL SELECTION" AND "STRUGGLE FOR EXISTENCE"
HERE QUOTED FOR THE FIRST TIME IN DARWIN’S HAND

94. DARWIN, Charles

Autograph Letter Signed ("Ch. Darwin") to Thomas Rivers. [Down], Saturday, 14 Feb 1863. 3 pages (8 x 5 in.); on his personal stationery.

An excellent letter directly dealing with core concerns of the theory of evolution: inheritance, natural selection, the struggle for existence.

Two descriptive terms embody Darwin’s entire theory of evolution: “natural selection” and “struggle for life.” Both describe the natural tendency for species to adapt to their environment, with the premise that those which can better adapt have a better chance of survival. The concept of an incremental progression of living species to improve and modify to their surroundings was termed “natural selection.” His other fundamental phrase was “struggle to survive.” Both have become synonymous with the Origin of species and its pertinent evolutionary theory.

Amongst Darwin’s 15,000 letters now being researched, documented, analyzed, and published by the Darwin Correspondence Project in Cambridge, the combination of both terms in the author’s hand is exceedingly rare, with only 14 documented occurrences [www.darwinproject.ac.uk/advanced-search]. Only four of these letters present the two terms in the same sentence. And of these four, only this one has the prophetic words within quotation marks, expressing Darwin’s intense attachment and dedication to this premise and theory. Indeed, there are no letters written in Darwin’s hand which combine the terms “struggle for life,” “natural selection,” and “survival of the fittest,” but only two letters addressed to Darwin which include all three terms, one from Alfred R. Wallace (1866) and the other from Charles Lyell (1869) (see darwinproject.ac.uk).

The letter here is addressed to Thomas Rivers (1798–1877), owner of a large tree and flower nursery in Hertfordshire. Rivers wrote several noted books on horticulture and published frequently in garden journals. He corresponded with Darwin, exchanging some thirty letters, and even sent him specimens. He also performed several breeding experiments on Darwin’s behalf. Darwin responds to Rivers’ letter of 3 Feb 1863, which is only partially extant, in which he references the Origin and provides observations on “selection” in the growth of seedlings. Rivers had commented that a patch of seedling trees begins equal, but in succeeding years some grow taller or root more deeply, thus outstripping the others. Darwin responds: What you say of seedlings conquering each other well illustrates the “struggle for existence” and “natural selection.” I have often & often looked at a crowd of natural seedlings with just such feelings & reflections as yours. Darwin also tells Rivers that he has kept note of Rivers’ 1838 published report that of 20,000 or 30,000 seedlings from the common weeping ash, none of them inherited the weeping characteristic. At the time of this letter, Darwin was actively at work gathering data for and writing The variation of animals and plants under domestication. Rivers is referenced in multiple places in the book. Rivers’ report on the “20,000 or 30,000” ash seedlings, which Darwin mentions in this letter, is in fact cited in Ch. XII. Subsequent to this letter, Rivers also provided Darwin with the information he sought about the weeping elm by custom raising seedlings at Darwin’s request (also cited in Ch. XII).