

MATHEMATICS, mainly probability theory

**A short list of important and rare books by
Bachelier, Bertrand, Boole, Condorcet,
Cournot, Laplace, and B. Russell
1805-1939**

LIST 1/2020



ANTIQUARIAT DIETER STECHER

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Ökonomische Schriften des 16.-20. Jahrhunderts Littérature économique du 16-20^{ème} siècle 16-20th century economic writings

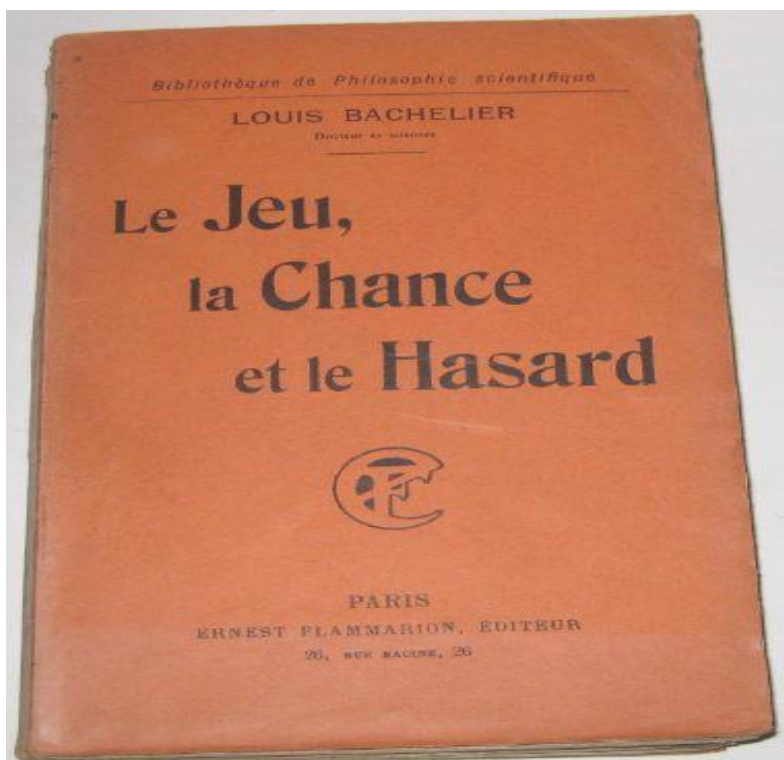
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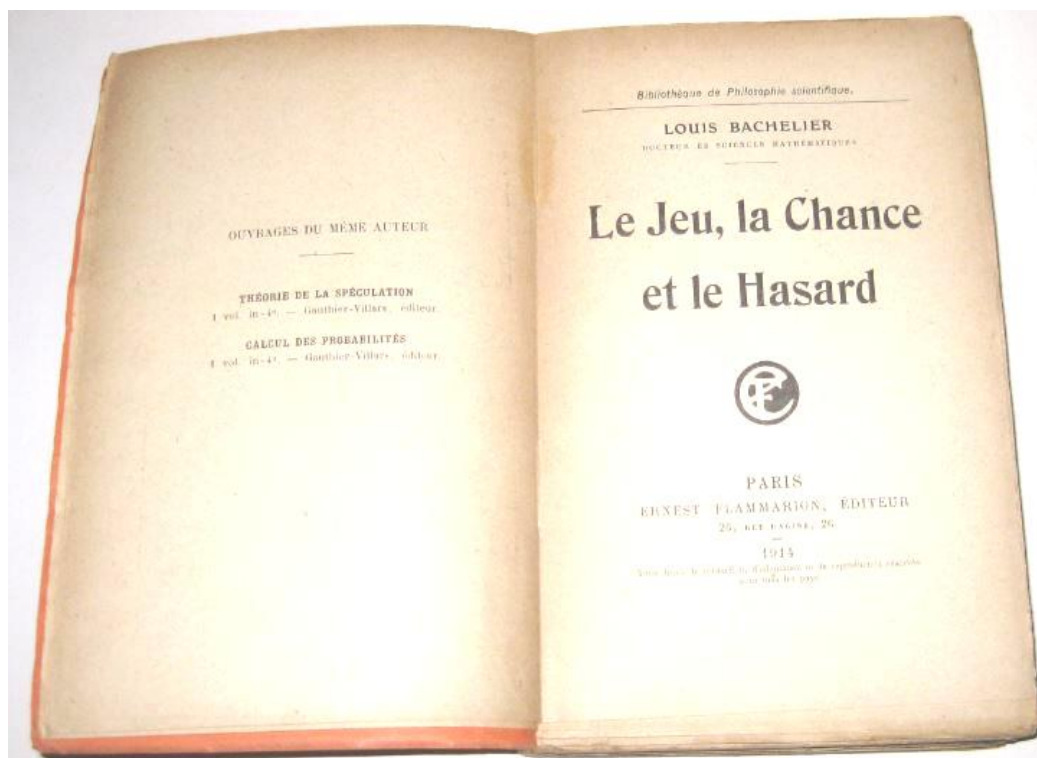
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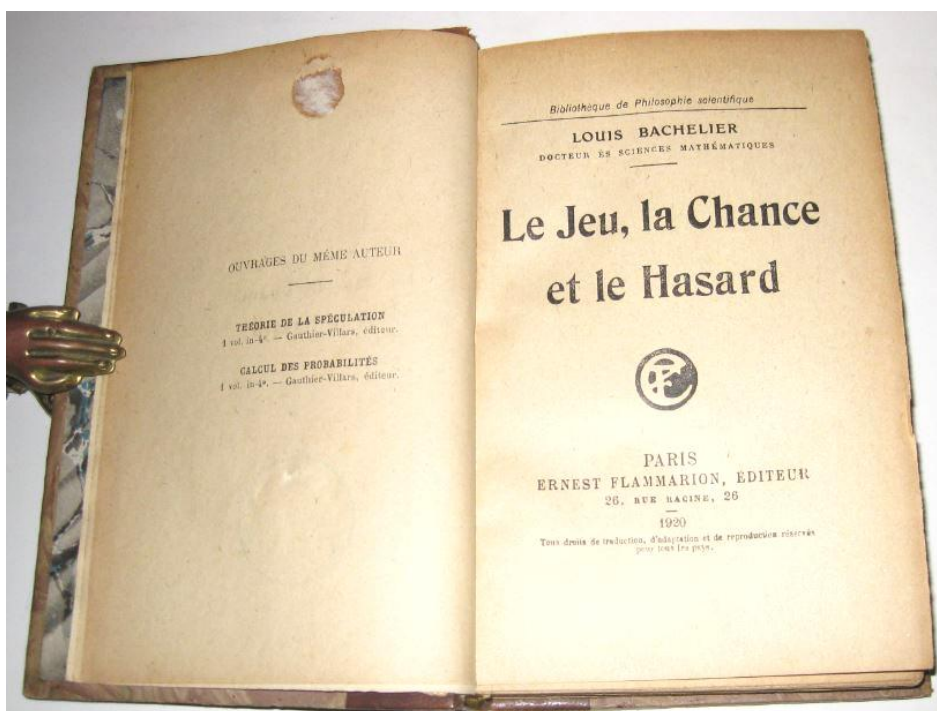
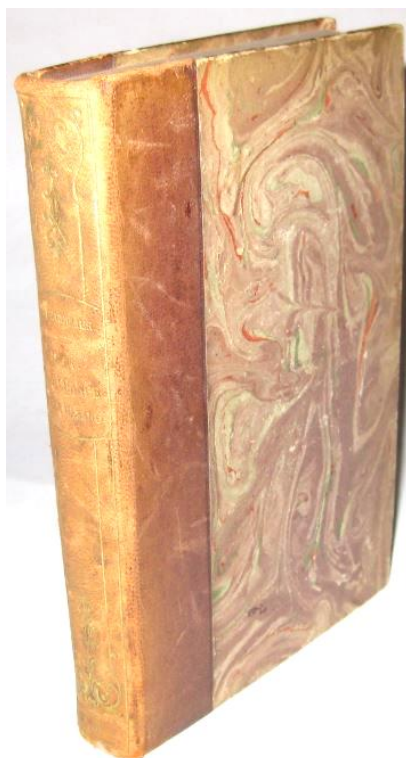


01. BACHELIER, Louis: *Le Jeu, la Chance et le Hasard*. Paris, Ernest Flammarion, éditeur, 1914. One volume in small 8vo.; pp. (4), 320; original printed wrappers, slightly bumped, spine a bit sunned, edges untrimmed, mild age-toning throughout, else clean and crisp, a very good copy.

600 €



Rare first edition. Louis Bachelier (1870-1946) was an eminent French mathematician who is considered as the father of financial mathematics. He studied at the Sorbonne where he wrote his famous thesis *Théorie de la speculation* (1900). In 1912 followed *Calcul des Probabilités* and in 1914 *Le Jeu, la Chance et le Hasard*. During his lifetime he did not gain the recognition he deserved. Paul A. Samuelson and others rediscovered his work and further developed his ideas (especially in the field of stock options and share prices). **Lexikon ökonomischer Werke, p. 23**



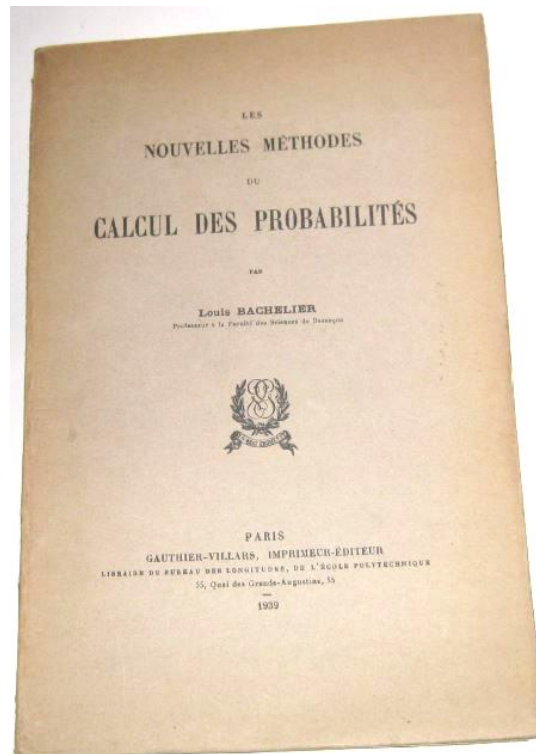
02. BACHELIER, Louis: Le Jeu, la Chance et le Hasard. Paris, Ernest

Flammarion, éditeur, 1920. One volume in small 8vo.; pp. (4), 320; Contemporary half calf over marbled boards, extremities slightly rubbed, spine a bit sunned, some gilding and gilt lettering to spine, front and bottom edges untrimmed, exlibris stamp to half title,

mild age-toning throughout, else clean and crisp, a very good copy.

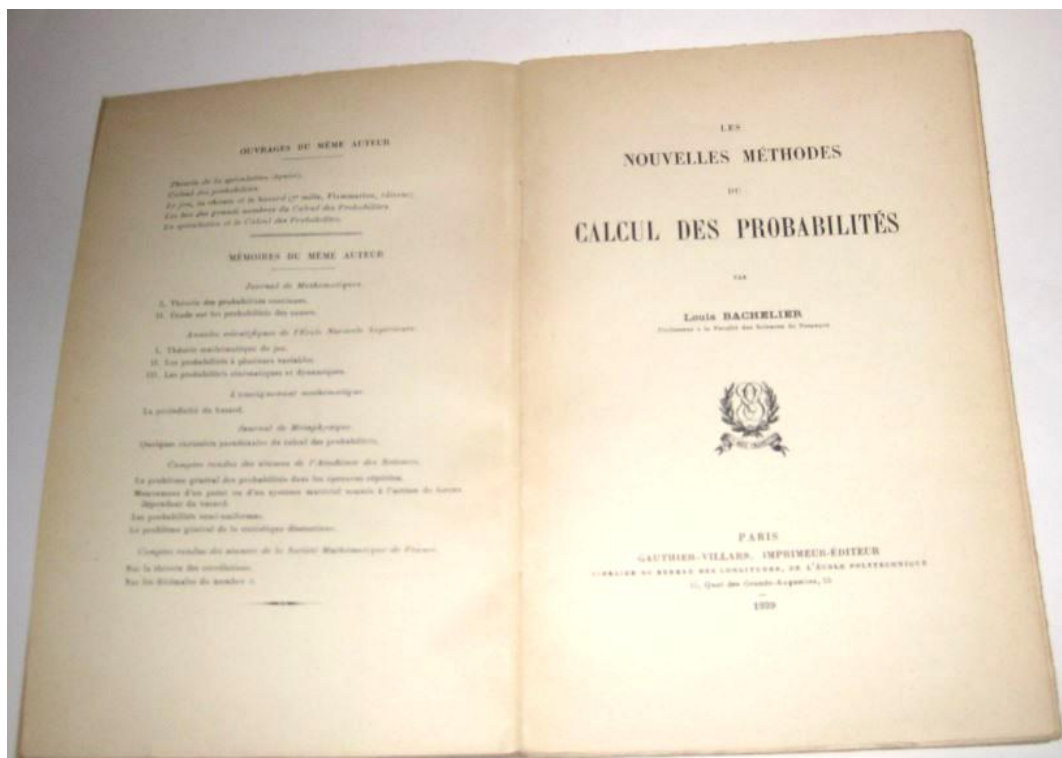
250 €

First edition, second printing. Louis Bachelier (1870-1946) was an eminent French mathematician who is considered as the father of financial mathematics. He studied at the Sorbonne where he wrote his famous thesis *Théorie de la speculation* (1900). In 1912 followed *Calcul des Probabilités* and in 1914 *Le Jeu, la Chance et le Hasard*. During his lifetime he did not gain the recognition he deserved. Paul A. Samuelson and others rediscovered his work and further developed his ideas (especially in the field of stock options and share prices). **Lexikon ökonomischer Werke, p. 23**

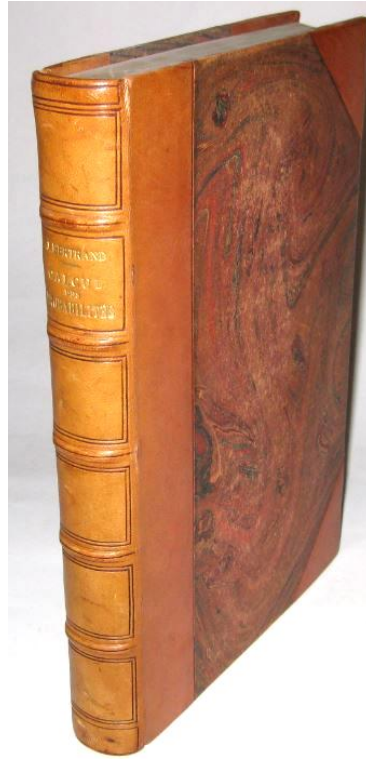


03. BACHELIER, Louis : Les nouvelles méthodes du calcul des probabilités. Paris, Gauthier-Villars, 1939. One volume in 8vo. ; pp. VIII, 69, (3) ; original printed stiff wrappers, slightly bumped, wrappers a bit browned towards edges, partly uncut, inside clean and crisp, a very good+ copy.

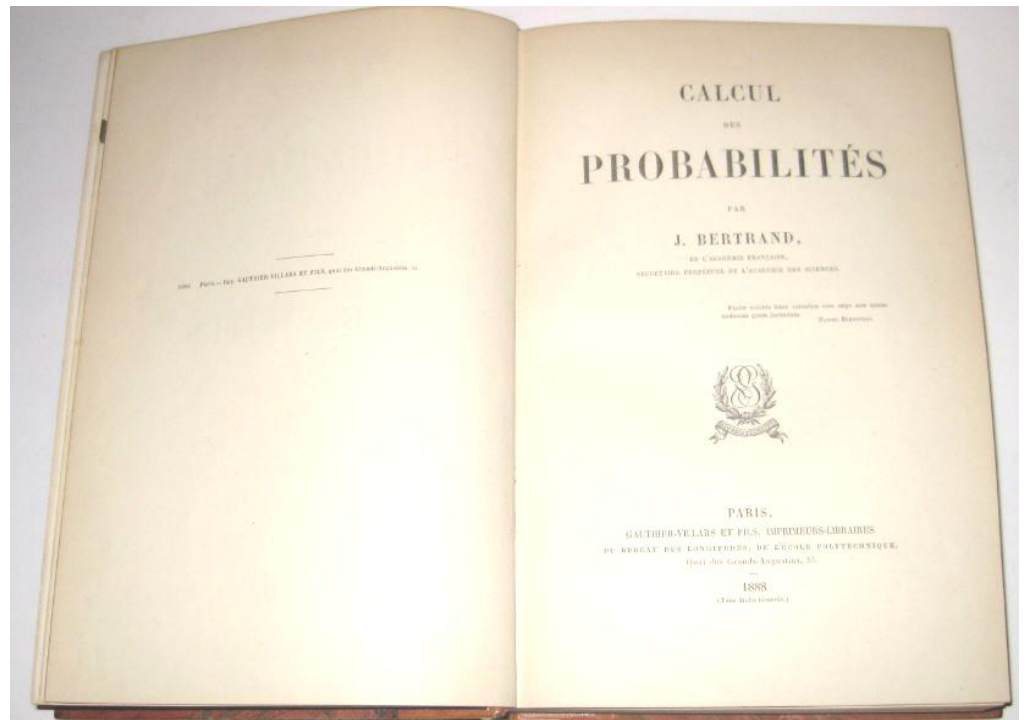
580 €



First edition. One of his later memoirs in which he presents new formula for the calculation of probabilities.



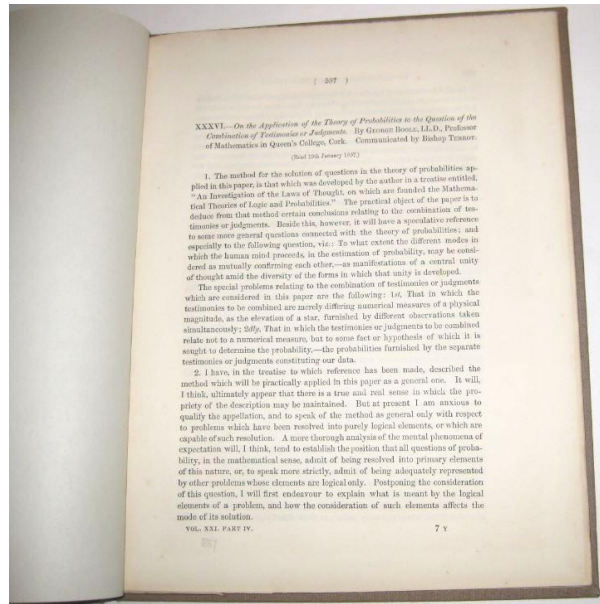
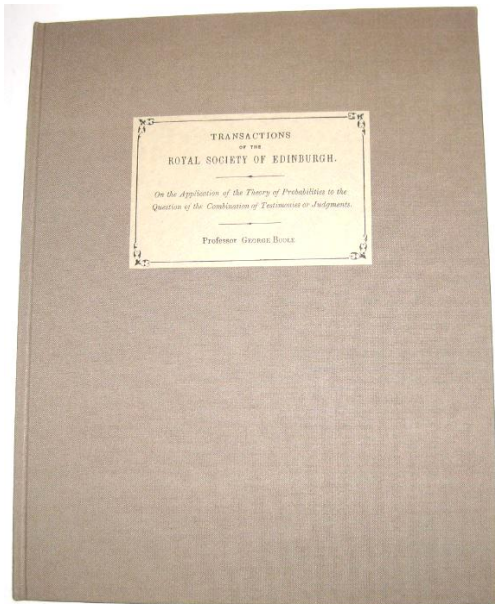
04. BERTRAND, J.: Calcul des probabilités. Paris, Gauthier-Villars, 1888. One volume in 8vo ; pp. LVII, (1), 332 ; contemporary half calf over decorative boards with corners in leather, no rubbing or bumping, raised bands, gilt lettering to spine, marbled edges, silk moiré endpapers, small label of a Stockholm bookbinder to front



cover pastedown, name and date to front fly leave, mild age-toning towards edges, inside clean and crisp, a very attractive copy.

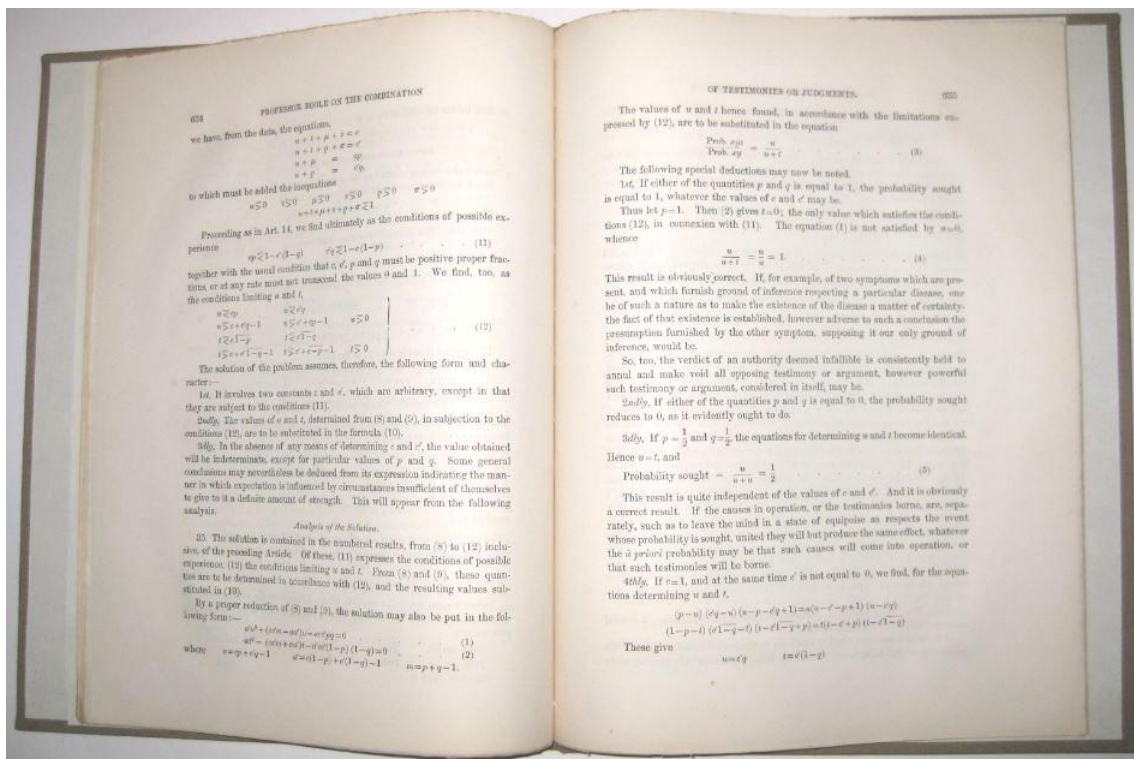
300 €

First edition. The French mathematician J.L.Fr. Bertrand (1822-1900) was professor at the École Polytechnique and Collège de France. He worked in the fields of number theory, differential geometry, probability theory, economics and thermodynamics and he translated into French the works of Carl Friedrich Gauss. Bertrand is famous for a paradox in the field of probability, now known as *Bertrand's Paradox*.

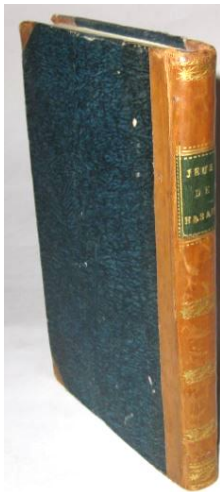
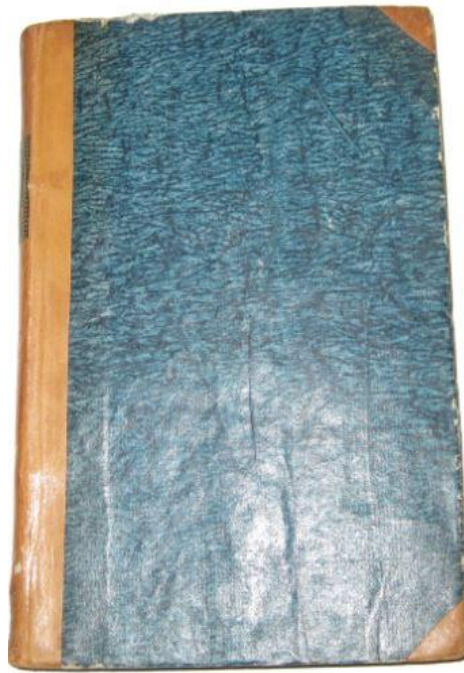


05. BOOLE, George: On the application of the theory of probability to the question of the combination of testimonies or judgments. Extracted from *Transactions of the Royal Society of Edinburgh, volume 21, part IV, 1857*, pages 597-653. Slim 4to, recent cloth with printed paper label to upper cover, no rubbing or bumping, inside clean and crisp, only last page a bit browned, a very good+ copy.

400 €



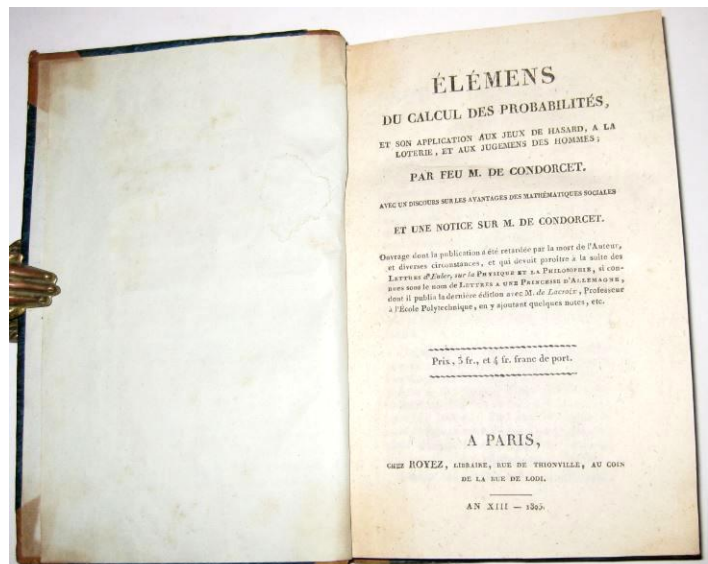
First edition. For this paper G. Boole was awarded the prestigious *Keith medal*.

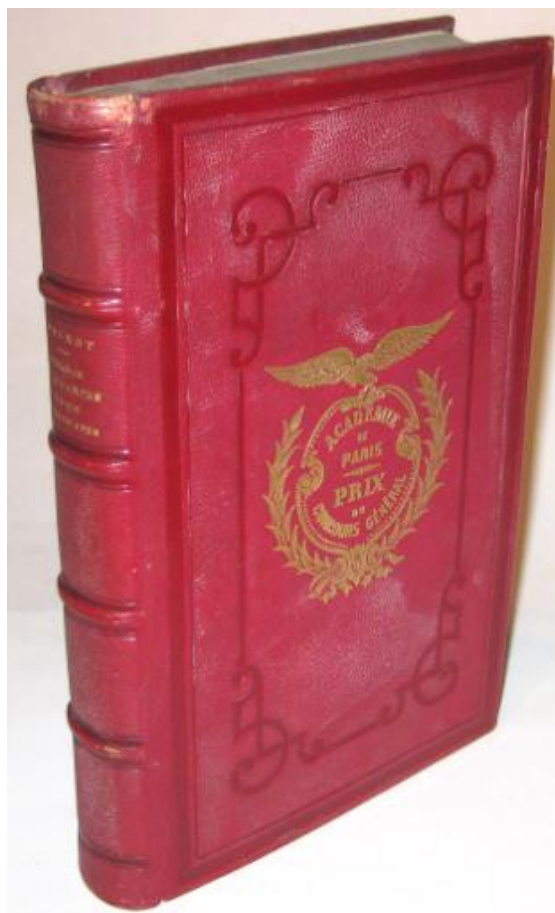


06. CONDORCET, Marquis de: *Éléments du calcul des probabilités, et son application aux jeux de hasard, à la loterie, et aux jugemens des hommes. Avec un discours sur les avantages des mathématiques sociales et une notice sur M. de Condorcet.* Paris, chez Royez, 1805. One volume in 8vo; pp. XII, 210; contemporary half calf over marbled boards with corners strengthened, a bit rubbed at extremities, two tiny wormholes at spine, spine with some gilding and gilt lettering-piece, engraved frontispiece to front cover pastedown, green endpapers a bit browned, sprinkled edges, some light foxing in places, else clean and crisp, a very good copy.

1.750 €

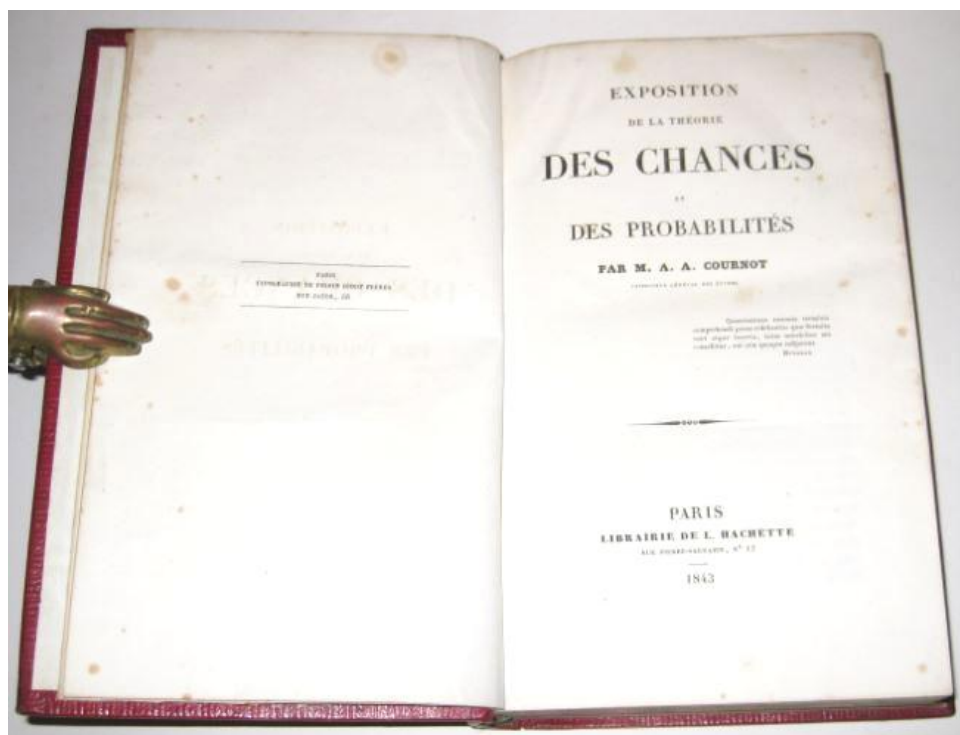
First edition. Condorcet (1743-1794) was a French mathematician and philosopher. With many of his fellow *encyclopédistes* he shared the conviction that social sciences are amenable to mathematical rigour. His pioneer work *Essai sur l'application à la probabilité des décisions rendues à la pluralité des voix* (1785) was a major step in that direction followed by *Eléments du calcul des probabilités*....where he further developed his combinatory and probabilistic theory of intellectual operations. **Cioranescu 20517, Quérard II, 268, Todhunter: A history of the mathematical theory of probability, p. 351 ff.**





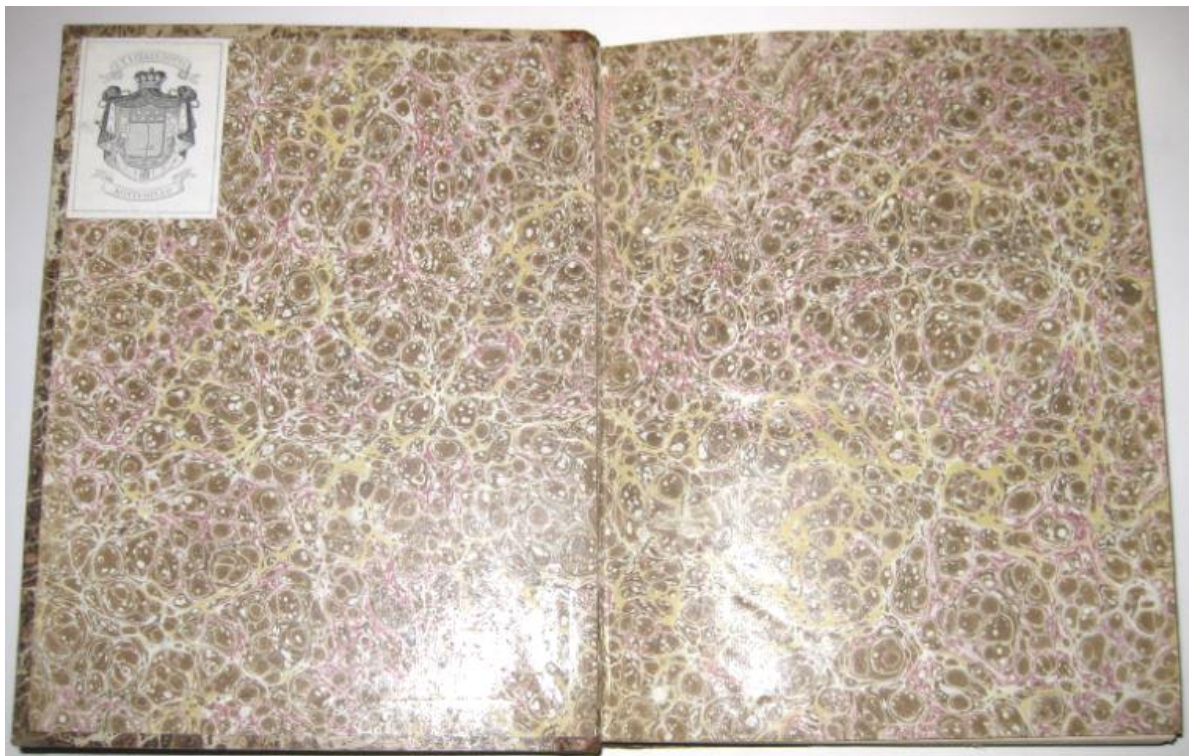
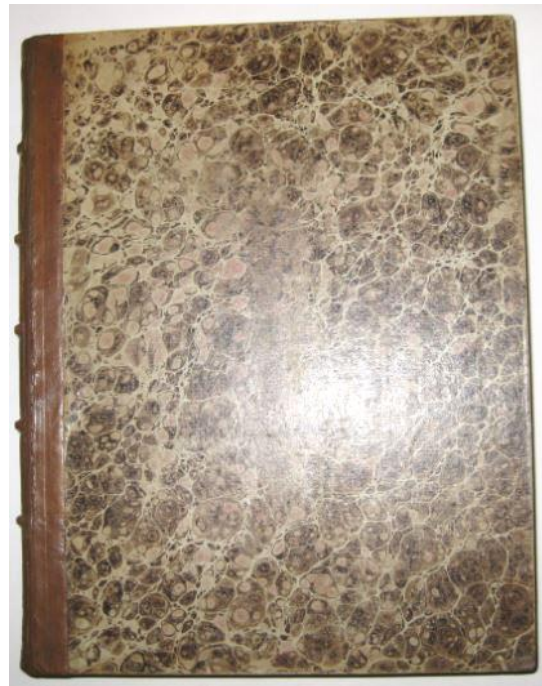
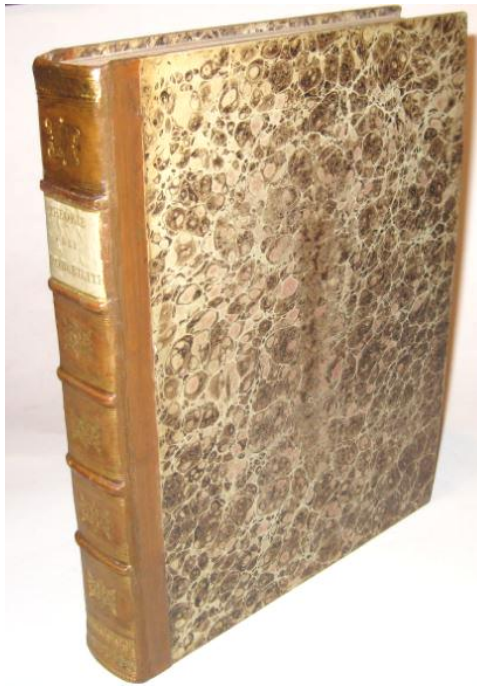
07. COURNOT, A.A.:

Exposition de la théorie des chances et des probabilités. Paris, L.Hachette, 1843. One volume in 8vo; pp. (4), VIII, 448, one folding table; contemporary red pebbled cloth with blind stamped decorations, gilt stamp of *Académie de Paris – Prix de Concours Général*, raised bands, gilt lettering to spine,, no rubbing or bumping, silk moiré endpapers, all edges gilt, minor spotting in places, else clean and crisp, a very good+ copy.

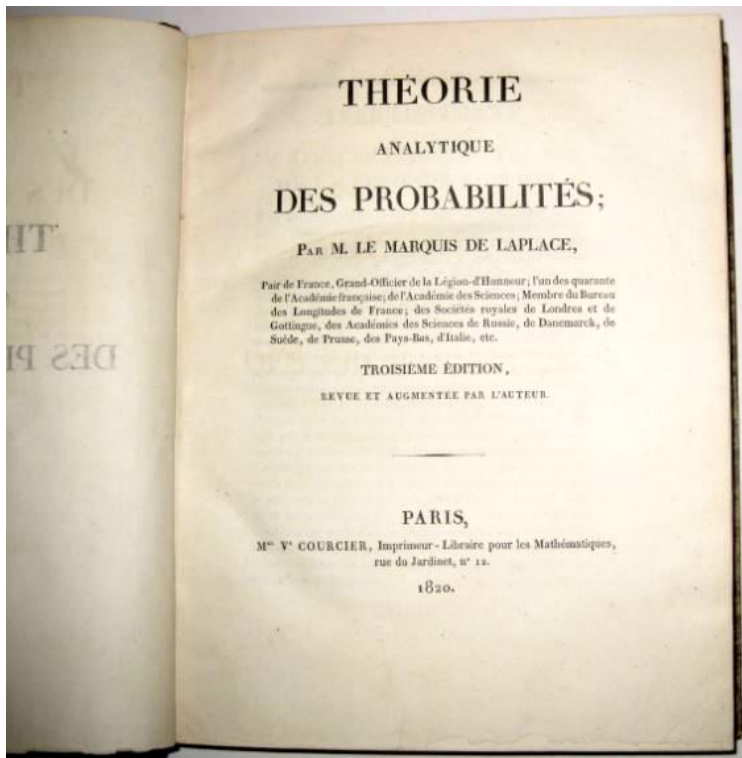


1.200 €

First edition of Cournot's (1801-1877) work on the theory of chance occurrences. It is important in the history of the calculus of probability, since it examines in an original way the interpretation and foundations of this calculus and its applications (DSB). **Goldsmiths 33124, Einaudi 1362, Mattioli 792.**



08. LAPLACE, Pierre Simon, Marquis de: *Théorie analytique des probabilités*. Troisième Édition, revue et augmentée par l'auteur. Paris, Mme Courcier, 1820. One volume in 4to ; pp. (6), CXLII, (1), 4-506, (2), 34, 50, 36, (2), includes half title and errata leaf and all supplements published until 1820, these supplements with separate pagination and half title.

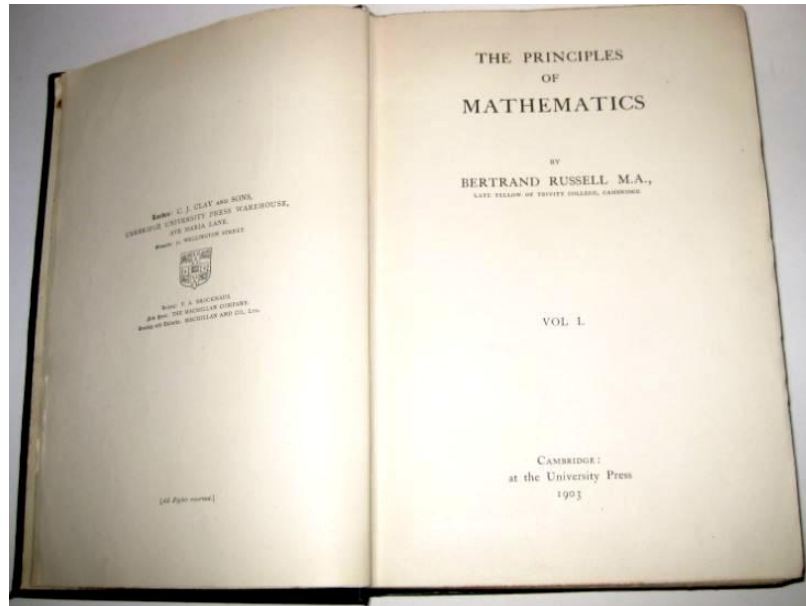
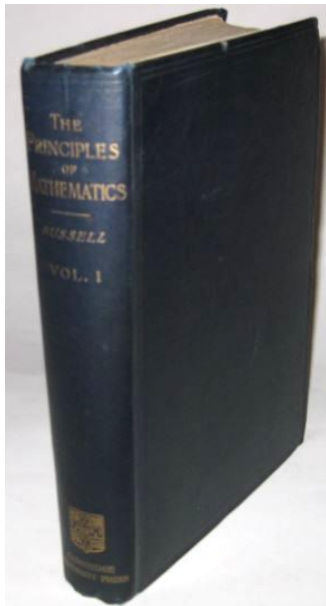


A fourth supplement of 28 pp. was only published 1824 and is therefore not bound in. Contemporary half calf (signed “Vogel”) over marbled boards, very little rubbed, raised bands, spine with gilding and contrasting gilt lettering-piece, spine very skillfully re-backed using the original spine strip, marbled edges and marbled endpapers, engraved ex libris *Ducis Montebello* to front cover pastedown, inside clean and crisp, and exceptionally fresh and attractive copy.

4.600 €

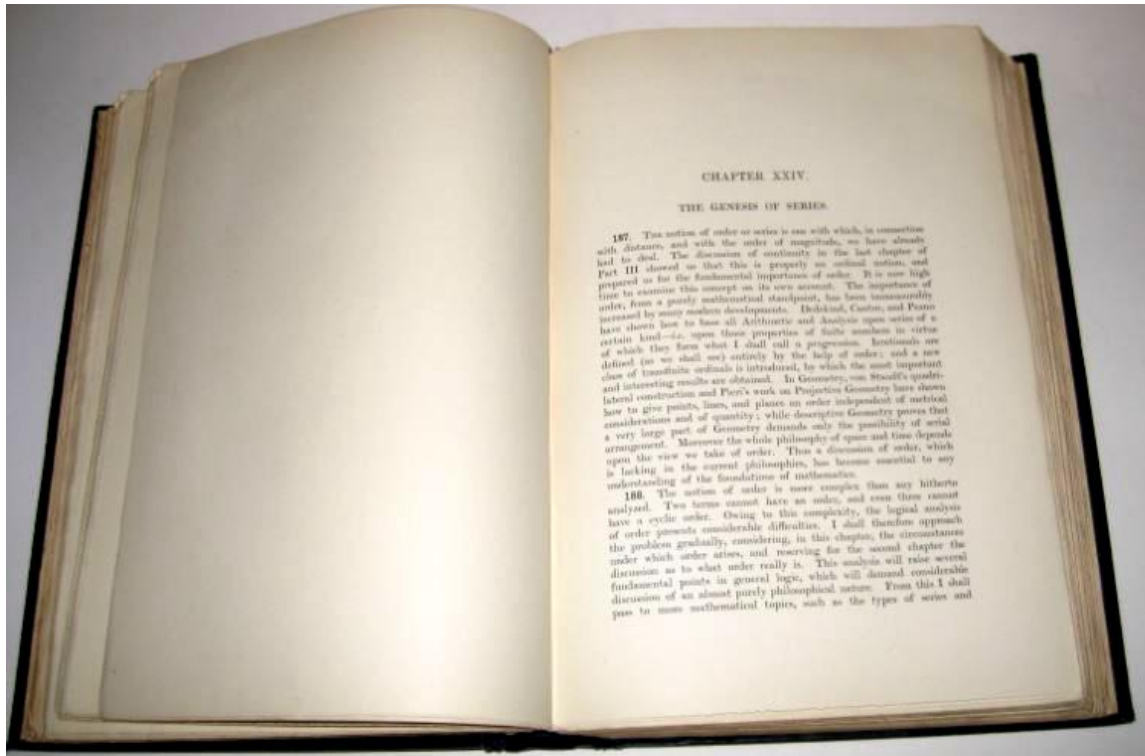
Very rare third and best edition (much rarer than the first edition of 1812) of Laplace’s seminal work on probability theory. “In probability and

its applications Laplace systematized and further extended the scattered researches of his predecessors, bringing the subject to full flower in the third edition of his great treatise”. (IESS 9,23). **Einaudi 3215**



09. RUSSELL, Bertrand: The principles of mathematics. Cambridge, at the University Press, 1903. One volume in large 8vo; pp. XXIX, (1), 534; original dark blue publisher’s cloth, only minor bumping, gilt lettering to spine, edges untrimmed, free endpapers a bit browned, small name to front free endpaper, inside clean and crisp, a very good+ copy.

1.350 €



First edition of Russell's landmark discussion of mathematics and mathematical logic. **Philosophen Lexikon II, 394.**