

The Doctrine of Chances

The Doctrine of Chances was the first textbook on probability theory, written by 18th-century French mathematician Abraham de Moivre and first published in 1718.^[1] De Moivre wrote in English because he resided in England at the time, having fled France to escape the persecution of Huguenots. The book's title came to be synonymous with *probability theory*, and accordingly the phrase was used in Thomas Bayes' famous posthumous paper *An Essay towards solving a Problem in the Doctrine of Chances*, wherein a version of Bayes' theorem was first introduced.

The Doctrine of Chances, 1738 edition

The Doctrine of Chances, 1756 edition

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Editions

The full title of the first edition was *The doctrine of chances: or, a method for calculating the probabilities of events in play*; it was published in 1718, by W. Pearson, and ran for 175 pages. Published in 1738 by Woodfall and running for 258 pages, the second edition of de Moivre's book introduced the concept of normal distributions as approximations to binomial distributions. In effect de Moivre proved a special case of the central limit theorem. Sometimes his result is called the theorem of de Moivre–Laplace. A third edition was published posthumously in 1756 by A. Millar, and ran for 348 pages; additional material in this edition included an application of probability theory to actuarial science in the calculation of annuities.^[1]

References

- ↑ Schneider, Ivor (2005), "Abraham De Moivre, *The Doctrine of Chances* (1718, 1738, 1756)", in Grattan-Guinness, I., *Landmark Writings in Western Mathematics 1640–1940*, Amsterdam: Elsevier, pp. 105–120, ISBN 0-444-50871-6.

Further reading

- Hald, Anders (1990), "De Moivre and the *Doctrine of Chances*, 1718, 1738, and 1756", *History of Probability and Statistics and Their Applications before 1750*, Wiley Series in Probability and Statistics, Wiley Interscience, p. 397.

External links

- The third edition of The Doctrine of Chances. (https://archive.org/details/doctrineofchance00moiv)
- Full text of “The Doctrine of Chances”, 1st edition; from books.google.com (https://books.google.com/books?id=3EPac6QpbuMC)
- The Doctrine of Chance (http://www.mathpages.com/home/kmath642/kmath642.htm) at MathPages

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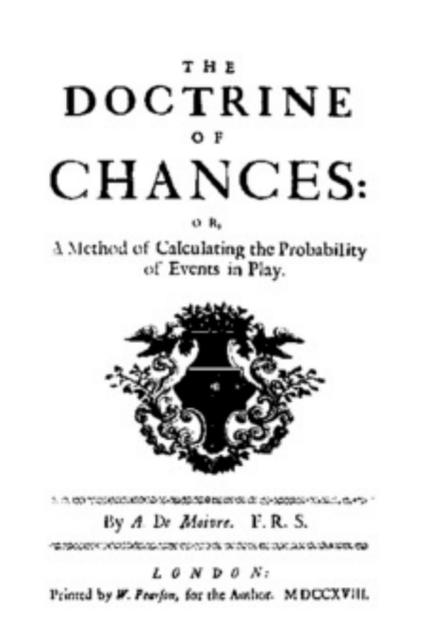
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Front page of the 1st edition of the “*Doctrine of Chances*”.