

Alon, Noga; Spencer, Joel H.

The probabilistic method. With an appendix on the life and work of Paul Erdős. 2nd ed.
(English) [Zbl 0996.05001](#)

Wiley-Interscience Series in Discrete Mathematics and Optimization. Chichester: Wiley. xvi, 301 p. (2000).

The first edition of this book was published in 1992 and reviewed in [Zbl 0767.05001](#). This second edition is nearly 50 pages longer and contains approximately 30 more references. New or improved results are given throughout the book. In particular, among other things, there is a new section on a continuous approach to certain discrete probabilistic problems; there is new material on concentration inequalities and their applications in the chapter on martingales; there is a new discussion of the connection between discrepancy and the VC-dimension; and there is a new section on combinatorial and geometric applications of the entropy function. Each of the fifteen chapters now concludes with some exercises.

Reviewer: J.W.Moon (Edmonton)

MSC:

- [05-02](#) Research exposition (monographs, survey articles) pertaining to combinatorics
- [05D40](#) Probabilistic methods in extremal combinatorics, including polynomial methods (combinatorial Nullstellensatz, etc.)

Cited in **6** Reviews
Cited in **167** Documents

Keywords:

[probabilistic methods](#)