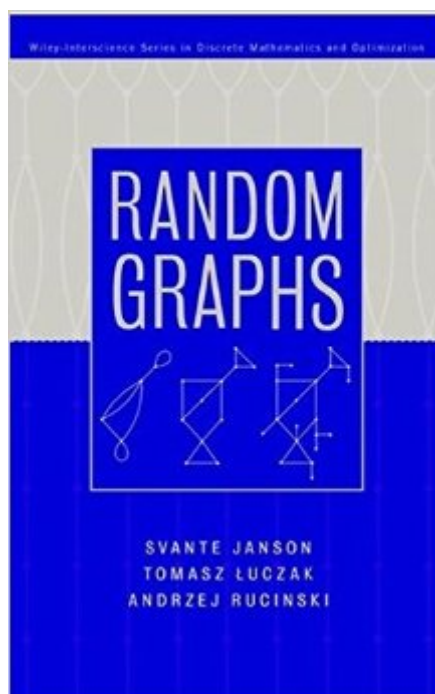


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Random Graphs



Synopsis

A unified, modern treatment of the theory of random graphs-including recent results and techniques. Since its inception in the 1960s, the theory of random graphs has evolved into a dynamic branch of discrete mathematics. Yet despite the lively activity and important applications, the last comprehensive volume on the subject is Bollobas's well-known 1985 book. Poised to stimulate research for years to come, this new work covers developments of the last decade, providing a much-needed, modern overview of this fast-growing area of combinatorics. Written by three highly respected members of the discrete mathematics community, the book incorporates many disparate results from across the literature, including results obtained by the authors and some completely new results. Current tools and techniques are also thoroughly emphasized. Clear, easily accessible presentations make Random Graphs an ideal introduction for newcomers to the field and an excellent reference for scientists interested in discrete mathematics and theoretical computer science. Special features include: * A focus on the fundamental theory as well as basic models of random graphs * A detailed description of the phase transition phenomenon * Easy-to-apply exponential inequalities for large deviation bounds * An extensive study of the problem of containing small subgraphs * Results by Bollobas and others on the chromatic number of random graphs * The result by Robinson and Wormald on the existence of Hamilton cycles in random regular graphs * A gentle introduction to the zero-one laws * Ample exercises, figures, and bibliographic references

Book Information

Hardcover: 348 pages

Publisher: Wiley-Interscience; 1 edition (March 13, 2000)

Language: English

ISBN-10: 0471175412

ISBN-13: 978-0471175414

Product Dimensions: 6.5 x 0.9 x 9.5 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: 2.0 out of 5 stars ÂÂ See all reviews Â (1 customer review)

Best Sellers Rank: #1,743,523 in Books (See Top 100 in Books) #238 in Â Books > Science & Math > Mathematics > Applied > Graph Theory #321 in Â Books > Science & Math > Mathematics > Pure Mathematics > Combinatorics #553 in Â Books > Science & Math > Mathematics > Pure Mathematics > Discrete Mathematics

Customer Reviews

The book claims to be a successor of Prof. Bollobas' book of the same title. Unlike Prof. Bollobas' book, I do not think this one is a very good textbook: The proofs of many theorems are not given, but the reader is directed to some source; these theorems are not of some unrelated subject, but their topic is random graphs. These unproven theorems are then used in the sequel to prove other theorems. Furthermore, many proofs are delegated to "Exercises!", but no solutions are given. Thirdly (at least for me, I am not a professional mathematician), the presentation is at very uneven levels: Very easy derivations and extremely hard derivations are mixed together, it seems the authors have little feel for the difficulty of their exposition. On the positive side: The book is virtually typo-free, and the section on inequalities is much clearer -actually very good!- than the one in Prof. Bollobas's book. A curious aside: two pages (pages 180, 181) were simply missing, and they were also missing in a second copy I ordered. Neither, nor the publisher (Wiley) were of any help getting those two pages.

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