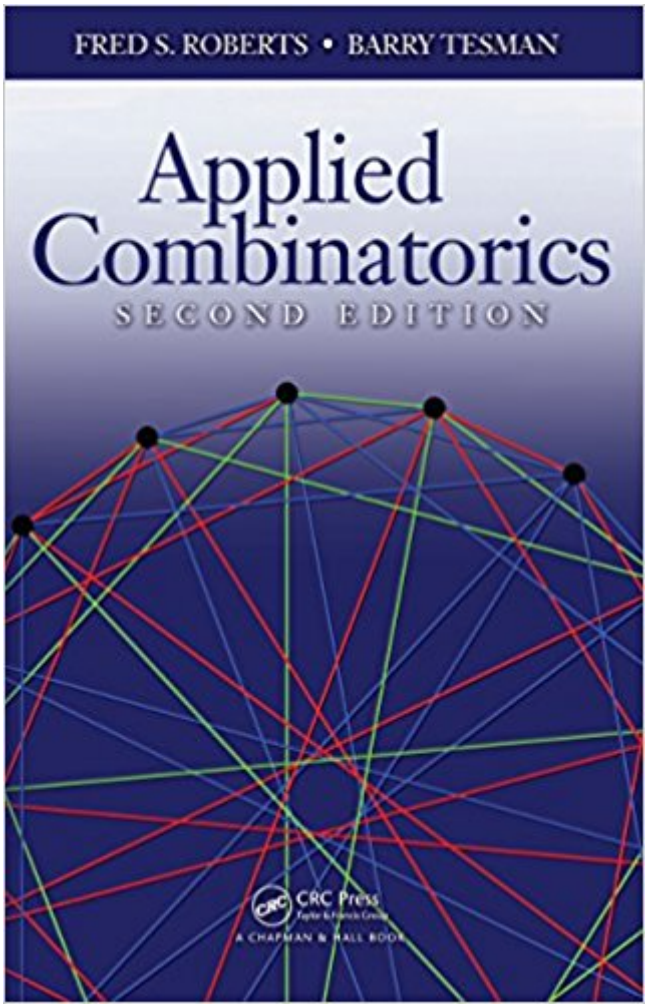
Applied Combinatorics, Second Edition



Synopsis

Now with solutions to selected problems, Applied Combinatorics, Second Edition presents the tools of combinatorics from an applied point of view. This bestselling textbook offers numerous references to the literature of combinatorics and its applications that enable readers to delve more deeply into the topics.After introducing fundamental counting rules and the tools of graph theory and relations, the authors focus on three basic problems of combinatorics: counting, existence, and optimization problems. They discuss advanced tools for dealing with the counting problem, including generating functions, recurrences, inclusion/exclusion, and PÃ lya theory. The text then covers combinatorial design, coding theory, and special problems in graph theory. It also illustrates the basic ideas of combinatorial optimization through a study of graphs and networks.

Book Information

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Customer Reviews

Simple book, good problems, doesn’t overcomplicate a simple subject. Four stars just because it could be clearer (by the middle of the book, the author is making certain small errors such as

introducing concepts out of order, or introducing in passing a major concept while lingering for a longer time on a minor one), but it’s one of the better textbooks I’ve ever had.

It is a great reference for combinatorics. It is as good for people encountering the subject for the first time, as for much more advanced learners, it has sections for both. I particularly liked the section on Polya’s Theorem, it’s the clearest explanation I’ve ever encountered in any mathematical text (much better than in Shiffrin’s Abstract Algebra) Would highly recommend

The first two thirds of the book is pretty standard, but the last third goes into detail on some of the modern theory including Hadamard matrices,Euler paths on graphs and Latin squares.It is good enough that I’m going to buy my own copy after reading a library copy. It doesn’t mention Vega triangle free graphs, but it gives one a better chance at modern graph theory than three other books that I have.The close relationship of graph theory to group theory, geometry and Cartanlie algebras isn’t covered either.

Seems like a reasonable book. Problems are reasonably hard and the literature is accurate. The only problem i have is there are no solutions to any prblems so you dont know if you are doing them correctly.

Great book. Smooth any easy going

Recommended by one of my professors. Fairly clear and useful when I need to clarify something gone over in class.

Arrived quickly. A textbook for my college-aged child - I guess it’s good - I don’t really understand any of it.

This book continues CRC’s fine tradition of putting out definitive texts on a technical field. The amount of material on combinatorics is exceedingly non-trivial. I suspect few readers will actually take this book apart cover to cover. Which is a pity, because the coverage of algorithms is comprehensive and lucidly explained.The book compares favourably to Knuth’s classic 3 volume series,Â Art of Computer Programming, The, Volumes 1-3 Boxed Set (2nd Edition) (Vol 1-3). However, the problems for each chapter in the current book are simpler. There are few of the truly

hard exercises that Knuth liberally sprinkled throughout his books.What you may want to do with this book is perhaps only read the chapters relevant to your needs. Given on your part a reasonable pre-existing background in computing and combinatorics, then the book has a key property that its chapters are largely independent of each other. So you can get quickly to the germane sections.

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