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Principles And Techniques In Combinatorics

PRINCIPLES and TECHNIQUES in COMBINATORICS

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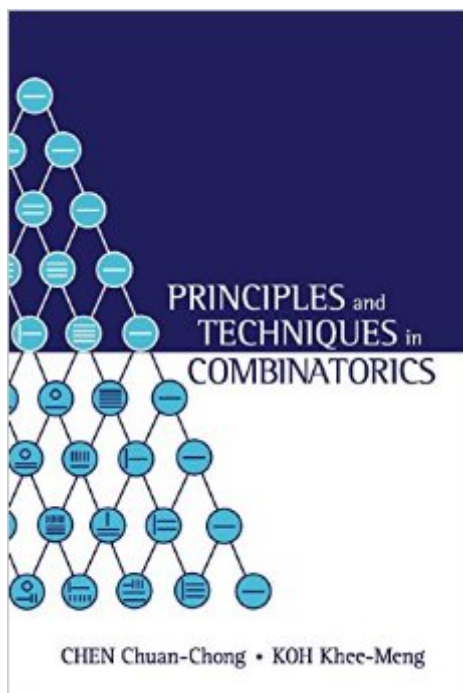
Synopsis

A textbook suitable for undergraduate courses. The materials are presented very explicitly so that students will find it very easy to read. A wide range of examples, about 500 combinatorial problems taken from various mathematical competitions and exercises are also included.

Book Information

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Customer Reviews

"This book should be a must for all mathematicians who are involved in the training of Mathematical Olympiad teams, but it will also be a valuable source of problems for university courses." Mathematical Reviews

This is a great book and I am very happy I purchased it. The examples/explanations are very clear and there are many practice problems to work on. I definitely recommend if you have an interest in the subject.

This book is loaded with useful information. Every concept is reinforced with very lucid and complete examples.

Very well written, nicely laid out book! Easy to follow examples throughout and it follows a nice progression through a wide variety of concepts. It also includes a lot of good practice problems for each chapter. A different (bad) book was required for a class. Several of us adopted this book as

our go-to book instead. I can't say enough good things about it. Highly recommend!

The authors have trained Math Olympiad Champs of Singapore and this book covers all you need as part of Math Olympiad preparation. It might be a little bit overwhelming but honestly, you need all of this material to do well in Math Olympiad.

We used this book in my high school Combinatorics class. I took another combinatorics class at my university, and this book is still a great companion to the class material. Nothing I can say that the other reviewers haven't already covered: concise, yet detailed and easy to understand.

Class material.

Organized well but not clearly written.

This book has nice notation, a lot of non-trivial, instructive examples, a lot of really good problems and clear, to-the-point writing.One valuable feature of this text that I didn't see mentioned is the selection of topics. A lot of combinatorics texts rarely devote an entire chapter to recurrence relations. To the extent of my knowledge, examples of texts with limited coverage are Stanley (vol 1), Riordan, Harris-Hirst-Mossinghoff, Comtet, Bona and Camina-Lewis. Generating functions and recurrence relations often work side-by-side, so the additional coverage allows one to get more mileage from the material on generating functions. Also, recurrence relations are often slick ways to find inductive structure in a problem, which leads to proofs -- even if they aren't what you want, computationally.One downside is the typesetting and the paper-back materials. The typesetting is overly dark and isn't very elegant. The pages of the book are almost stiffer than the covers, so this makes reading the text rather uncomfortable. World Scientific rarely makes books that are superior to Springer, Cambridge with respect to materials and appearance.

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