Introductory Combinatorics, Richard A. Brualdi, Pearson Education, Limited, 2012, 0132791714, 9780132791717, . Appropriate for one- or two-semester, junior- to senior-level combinatorics courses. This trusted best-seller covers the key combinatorial ideas including the pigeon-hole principle, counting techniques, permutations and combinations, Pólya counting, binomial coefficients, inclusion-exclusion principle, generating functions and recurrence relations, combinatorial structures (matchings, designs, graphs), and flows in networks. The Fifth Edition incorporates feedback from users to the exposition throughout and adds a wealth of new exercises.

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Applied combinatorics, Alan Tucker, 2002, , 446 pages. This book is designed for use by students with a wide range of ability and maturity. The stronger the students, the harder the exercises that can be assigned. The book can be ....


Introductory combinatorics, Kenneth P. Bogart, 1983, Mathematics, 388 pages. Focusing on the core material of value to students in a wide variety of fields, this book presents a broad comprehensive survey of modern combinatorics at an introductory level.


Abstract algebra, David Steven Dummit, Richard M. Foote, Jan 15, 1999, , 898 pages. The book carefully develops the theory of different algebraic structures, beginning from basic definitions to some in-depth results, using numerous examples and exercises.

Foundations of applied combinatorics, Edward A. Bender, Stanley Gill Williamson, 1991, Mathematics, 425 pages. This introduction to combinatorics is suitable for upper-level undergraduates and graduate students in engineering, science, and mathematics. The four-part treatment begins.


Combinatorial Theory, Martin Aigner, 1979, Mathematics, 483 pages. From the reviews: "This book
presents a very good introduction to combinatorics. It covers most aspects of enumeration and order theory, ... It is divided into three parts.


Topics in combinatorial mathematics, Chung Laung Liu, Mathematical Association of America, 1972, Mathematics, 265 pages.


This trusted best-seller emphasizes combinatorial ideas—including the pigeon-hole principle, counting techniques, permutations and combinations, Pólya counting, binomial coefficients, inclusion-exclusion principle, generating functions and recurrence relations, combinatorial structures (matchings, designs, graphs), and flows in networks. The Fifth Edition clarifies the exposition throughout and adds a wealth of new exercises. Appropriate for one- or two-semester, junior- to senior-level combinatorics courses.

I used the book to guide me through a Combinatorics class I took in the summer of 1998. The author has presented some very interesting problems like prove that of any 10 points chosen within an equilateral triangle of side length 1, there are 2 whose distance apart is at most 1/3 that use some interesting techniques such as the pigeonhole principal. The book, however, contained too many mistakes. My professor said on average there is one mistake per page and he wasn’t exaggerating either. Luckily with his help, we corrected the many mistakes and then were successfully able to use the book. I notice that the author has written a new edition. I hope most of the mistakes have been corrected because when I pay a good sum of money for a book I expect it to be a good book without errors.

Use of the term “combination” as it applies to a set has been de-emphasized; the author now uses the essentially equivalent term of “subset” for clarity. (In the case of multisets, the text continues to use “combination” versus the more cumbersome term “submultiset.”)

Richard A. Brualdi is Bascom Professor of Mathematics, Emeritus at the University of Wisconsin-Madison. He served as Chair of the Department of Mathematics from 1993-1999. His research interests lie in matrix theory and combinatorics/graph theory. Professor Brualdi is the author or co-author of six books, and has published extensively. He is one of the editors-in-chief of the journal “Linear Algebra and its Applications” and of the journal “Electronic Journal of Combinatorics.” He is a member of the American Mathematical Society, the Mathematical Association of America, the International Linear Algebra Society, and the Institute for Combinatorics and its Applications. He is also a Fellow of the Society for Industrial and Applied Mathematics.

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Introductory Combinatorics 4ed, this book emphasizes combinatorial ideas including the pigeon-hole principle, counting techniques, permutations and combinations, Pólya counting, binomial coefficients, inclusion-exclusion principle, generating functions and recurrence relations, and combinatorial structures (matchings, designs, graphs). The volume provides a complete examination of combinatorial ideas and techniques. For individuals interested in combinatorial concepts.

R. A. Brualdi is a professor emeritus of combinatorial mathematics at the University of Wisconsin Madison. He received the Euler medal from the Institute of Combinatorics and its Applications in 2000. He received his Ph.D. from Syracuse University in 1964, his advisor was Herbert John Ryser. Brualdi is an Editor-in-chief of Electronic Journal of Combinatorics. He has over 200 publications in several mathematical journals. According to current on-line database of Mathematics Genealogy Project, Richard Brualdi has 34 PhD students and 48 descendants.
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