

DISCRETE MATHEMATICS AND ITS APPLICATIONS

Series Editor KENNETH H. ROSEN

COMBINATORIAL METHODS WITH COMPUTER APPLICATIONS

JONATHAN L. GROSS



Chapman & Hall/CRC
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Combinatorial Methods With Computer Applications Discrete Mathematics And Its Applications:

Combinatorial Methods with Computer Applications Jonathan L. Gross, 2016-04-19 This combinatorics text provides in depth coverage of recurrences generating functions partitions and permutations along with some of the most interesting graph and network topics design constructions and finite geometries It presents the computer and software algorithms in pseudo code and incorporates definitions theorems proofs examples and nearly 300 illustrations as pedagogical elements of the exposition Numerous problems solutions and hints reinforce basic skills and assist with creative problem solving The author also offers a website with extensive graph theory informational resources as well as a computational engine to help with calculations for some of the exercises

Bijective Combinatorics Nicholas Loehr, 2011-02-10 Bijective proofs are some of the most elegant and powerful techniques in all of mathematics Suitable for readers without prior background in algebra or combinatorics Bijective Combinatorics presents a general introduction to enumerative and algebraic combinatorics that emphasizes bijective methods The text systematically develops the mathematical

Introduction to Combinatorics W.D.

Wallis, John George, 2011-06-30 Accessible to undergraduate students Introduction to Combinatorics presents approaches for solving counting and structural questions It looks at how many ways a selection or arrangement can be chosen with a specific set of properties and determines if a selection or arrangement of objects exists that has a particular set of properties To give students a better idea of what the subject covers the authors first discuss several examples of typical combinatorial problems They also provide basic information on sets proof techniques enumeration and graph theory topics that appear frequently throughout the book The next few chapters explore enumerative ideas including the pigeonhole principle and inclusion exclusion The text then covers enumerative functions and the relations between them It describes generating functions and recurrences important families of functions and the theorems of P lya and Redfield The authors also present introductions to computer algebra and group theory before considering structures of particular interest in combinatorics graphs codes Latin squares and experimental designs The last chapter further illustrates the interaction between linear algebra and combinatorics Exercises and problems of varying levels of difficulty are included at the end of each chapter Ideal for undergraduate students in mathematics taking an introductory course in combinatorics this text explores the different ways of arranging objects and selecting objects from a set It clearly explains how to solve the various problems that arise in this branch of mathematics

Finite-Dimensional Linear Algebra Mark S. Gockenbach, 2011-06-15 Linear algebra forms the basis for much of modern mathematics theoretical applied and computational Finite Dimensional Linear Algebra provides a solid foundation for the study of advanced mathematics and discusses applications of linear algebra to such diverse areas as combinatorics differential equations optimization and approximation The author begins with an overview of the essential themes of the book linear equations best approximation and diagonalization He then takes students through an axiomatic development of vector spaces linear operators eigenvalues norms and inner products In addition to discussing the special

properties of symmetric matrices he covers the Jordan canonical form an important theoretical tool and the singular value decomposition a powerful tool for computation The final chapters present introductions to numerical linear algebra and analysis in vector spaces including a brief introduction to functional analysis infinite dimensional linear algebra Drawing on material from the author s own course this textbook gives students a strong theoretical understanding of linear algebra It offers many illustrations of how linear algebra is used throughout mathematics *Introduction to Combinatorics* Walter D. Wallis,John C. George,2016-12-12 What Is Combinatorics Anyway Broadly speaking combinatorics is the branch of mathematics dealing with different ways of selecting objects from a set or arranging objects It tries to answer two major kinds of questions namely counting questions how many ways can a selection or arrangement be chosen with a particular set of properties and structural questions does there exist a selection or arrangement of objects with a particular set of properties The authors have presented a text for students at all levels of preparation For some this will be the first course where the students see several real proofs Others will have a good background in linear algebra will have completed the calculus stream and will have started abstract algebra The text starts by briefly discussing several examples of typical combinatorial problems to give the reader a better idea of what the subject covers The next chapters explore enumerative ideas and also probability It then moves on to enumerative functions and the relations between them and generating functions and recurrences Important families of functions or numbers and then theorems are presented Brief introductions to computer algebra and group theory come next Structures of particular interest in combinatorics posets graphs codes Latin squares and experimental designs follow The authors conclude with further discussion of the interaction between linear algebra and combinatorics Features Two new chapters on probability and posets Numerous new illustrations exercises and problems More examples on current technology use A thorough focus on accuracy Three appendices sets induction and proof techniques vectors and matrices and biographies with historical notes Flexible use of MapleTM and MathematicaTM

Algebraic Number Theory Richard A. Mollin,2011-01-05 Bringing the material up to date to reflect modern applications this second edition has been completely rewritten and reorganized to incorporate a new style methodology and presentation It offers a more complete and involved treatment of Galois theory a more comprehensive section on Pollard s cubic factoring algorithm and more detailed explanations of proofs to provide a sound understanding of challenging material This edition also studies binary quadratic forms and compares the ideal and form class groups The text includes convenient cross referencing a comprehensive index and numerous exercises and applications *Combinatorics of Permutations* Miklos Bona,2016-04-19 A Unified Account of Permutations in Modern CombinatoricsA 2006 CHOICE Outstanding Academic Title the first edition of this bestseller was lauded for its detailed yet engaging treatment of permutations Providing more than enough material for a one semester course Combinatorics of Permutations Second Edition continues to clearly show the usefuln *Graph Polynomials* Yongtang Shi,Matthias Dehmer,Xueliang Li,Ivan Gutman,2016-11-25 This book covers both

theoretical and practical results for graph polynomials Graph polynomials have been developed for measuring combinatorial graph invariants and for characterizing graphs Various problems in pure and applied graph theory or discrete mathematics can be treated and solved efficiently by using graph polynomials Graph polynomials have been proven useful areas such as discrete mathematics engineering information sciences mathematical chemistry and related disciplines

Mathematical Reviews ,2008 *Graphs, Algorithms, and Optimization* William Kocay,Donald L. Kreher,2016-11-03 The second edition of this popular book presents the theory of graphs from an algorithmic viewpoint The authors present the graph theory in a rigorous but informal style and cover most of the main areas of graph theory The ideas of surface topology are presented from an intuitive point of view We have also included a discussion on linear programming that emphasizes problems in graph theory The text is suitable for students in computer science or mathematics programs

Crossing Numbers of Graphs

Marcus Schaefer,2018-01-02 Crossing Numbers of Graphs is the first book devoted to the crossing number an increasingly popular object of study with surprising connections The field has matured into a large body of work which includes identifiable core results and techniques The book presents a wide variety of ideas and techniques in topological graph theory discrete geometry and computer science The first part of the text deals with traditional crossing number crossing number values crossing lemma related parameters computational complexity and algorithms The second part includes the rich history of alternative crossing numbers the rectilinear crossing number the pair crossing number and the independent odd crossing number It also includes applications of the crossing number outside topological graph theory Aimed at graduate students and professionals in both mathematics and computer science The first book of its kind devoted to the topic Authored by a noted authority in crossing numbers

How to Count Robert A. Beeler,2015-03-14 Providing a self contained resource for upper undergraduate courses in combinatorics this text emphasizes computation problem solving and proof technique In particular the book places special emphasis the Principle of Inclusion and Exclusion and the Multiplication Principle To this end exercise sets are included at the end of every section ranging from simple computations evaluate a formula for a given set of values to more advanced proofs The exercises are designed to test students understanding of new material while reinforcing a working mastery of the key concepts previously developed in the book Intuitive descriptions for many abstract techniques are included Students often struggle with certain topics such as generating functions and this intuitive approach to the problem is helpful in their understanding When possible the book introduces concepts using combinatorial methods as opposed to induction or algebra to prove identities Students are also asked to prove identities using combinatorial methods as part of their exercises These methods have several advantages over induction or algebra

Subject Guide to Books in Print ,2001 *Handbook of Discrete and Combinatorial Mathematics* Kenneth H. Rosen,2017-10-19 Handbook of Discrete and Combinatorial Mathematics provides a comprehensive reference volume for mathematicians computer scientists engineers as well as students and reference librarians The material is presented so that key information can be located and

used quickly and easily Each chapter includes a glossary Individual topics are covered in sections and subsections within chapters each of which is organized into clearly identifiable parts definitions facts and examples Examples are provided to illustrate some of the key definitions facts and algorithms Some curious and entertaining facts and puzzles are also included Readers will also find an extensive collection of biographies This second edition is a major revision It includes extensive additions and updates Since the first edition appeared in 1999 many new discoveries have been made and new areas have grown in importance which are covered in this edition *Fulltext Sources Online* ,2007

Combinatorial Methods in Discrete Mathematics Vladimir N. Sachkov,1996-01-11 This is an attempt to present some complex problems of discrete mathematics in a simple and unified form using a unique general combinatorial scheme The author s aim is not always to present the most general results but rather to focus attention on ones that illustrate the methods described A distinctive aspect of the book is the large number of asymptotic formulae derived This is an important book describing many ideas not previously available in English the author has taken the chance to update the text and references where appropriate

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