

DISCRETE MATHEMATICS AND ITS APPLICATIONS

Series Editor KENNETH H. ROSEN

HANDBOOK OF PRODUCT GRAPHS SECOND EDITION

Richard Hammack
Wilfried Imrich
Sandi Klavžar



CRC Press
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Handbook Of Product Graphs Second Edition Discrete Mathematics And Its Applications

Andrey O. Matveev



Handbook Of Product Graphs Second Edition Discrete Mathematics And Its Applications:

Handbook of Product Graphs Richard Hammack, Wilfried Imrich, Sandi Klavžar, 2011-06-06 This handbook examines the dichotomy between the structure of products and their subgraphs. It also features the design of efficient algorithms that recognize products and their subgraphs and explores the relationship between graph parameters of the product and factors. Extensively revised and expanded, this second edition presents full proofs of many important results as well as up to date research and conjectures. It illustrates applications of graph products in several areas and contains well over 300 exercises. Supplementary material is available on the book's website.

Handbook of Product Graphs, Second Edition Richard Hammack, Wilfried Imrich, Sandi Klavžar, 2011-06-06 Handbook of Product Graphs Second Edition examines the dichotomy between the structure of products and their subgraphs. It also features the design of efficient algorithms that recognize products and their subgraphs and explores the relationship between graph parameters of the product and factors. Extensively revised and expanded, the handbook presents full proofs of many important results as well as up to date research and conjectures. Results and Algorithms New to the Second Edition: Cancellation results. A quadratic recognition algorithm for partial cubes. Results on the strong isometric dimension. Computing the Wiener index via canonical isometric embedding. Connectivity results. A fractional version of Hedetniemi's conjecture. Results on the independence number of Cartesian powers of vertex transitive graphs. Verification of Vizing's conjecture for chordal graphs. Results on minimum cycle bases. Numerous selected recent results such as complete minors and nowhere zero flows. The second edition of this classic handbook provides a thorough introduction to the subject and an extensive survey of the field. The first three parts of the book cover graph products in detail. The authors discuss algebraic properties such as factorization and cancellation and explore interesting and important classes of subgraphs. The fourth part presents algorithms for the recognition of products and related classes of graphs. The final two parts focus on graph invariants and infinite directed and product like graphs. Sample implementations of selected algorithms and other information are available on the book's website which can be reached via the authors' home pages.

Handbook of Geometric Constraint Systems Principles Meera Sitharam, Audrey St. John, Jessica Sidman, 2018-07-20 The Handbook of Geometric Constraint Systems Principles is an entry point to the currently used principal mathematical and computational tools and techniques of the geometric constraint system GCS. It functions as a single source containing the core principles and results accessible to both beginners and experts. The handbook provides a guide for students learning basic concepts as well as experts looking to pinpoint specific results or approaches in the broad landscape. As such, the editors created this handbook to serve as a useful tool for navigating the varied concepts, approaches, and results found in GCS research. Key Features: A comprehensive reference handbook authored by top researchers. Includes fundamentals and techniques from multiple perspectives that span several research communities. Provides recent results and a graded program of open problems and conjectures. Can be used for senior undergraduate or

graduate topics course introduction to the area Detailed list of figures and tables About the Editors Meera Sitharam is currently an Associate Professor at the University of Florida s Department of Computer Information Science and Engineering She received her Ph D at the University of Wisconsin Madison Audrey St John is an Associate Professor of Computer Science at Mount Holyoke College who received her Ph D from UMass Amherst Jessica Sidman is a Professor of Mathematics on the John S Kennedy Foundation at Mount Holyoke College She received her Ph D from the University of Michigan

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

Handbook of Discrete and Computational Geometry Csaba D. Toth, Joseph O'Rourke, Jacob E. Goodman, 2017-11-22 The Handbook of Discrete and Computational Geometry is intended as a reference book fully accessible to nonspecialists as well as specialists covering all major aspects of both fields The book offers the most important results and methods in discrete and computational geometry to those who use them in their work both in the academic world as researchers in mathematics and computer science and in the professional world as practitioners in fields as diverse as operations research molecular biology and robotics Discrete geometry has contributed significantly to the growth of discrete mathematics in recent years This has been fueled partly by the advent of powerful computers and by the recent explosion of activity in the relatively young field of computational geometry This synthesis between discrete and computational geometry lies at the heart of this Handbook A growing list of application fields includes combinatorial optimization computer aided design computer graphics crystallography data analysis error correcting codes geographic information systems motion planning operations research pattern recognition robotics solid modeling and tomography

Pattern Recognition on Oriented Matroids Andrey O. Matveev, 2017-09-11 Pattern Recognition on Oriented Matroids covers a range of innovative problems in combinatorics poset and graph theories optimization and number theory that constitute a far reaching extension of the arsenal of committee methods in pattern recognition The groundwork for the modern committee theory was laid in the mid 1960s when it was shown that the familiar notion of solution to a feasible system of linear inequalities has ingenious analogues which can serve as collective solutions to infeasible systems A hierarchy of dialects in the language of mathematics for instance open cones in the context of linear inequality systems

regions of hyperplane arrangements and maximal covectors or toposes of oriented matroids provides an excellent opportunity to take a fresh look at the infeasible system of homogeneous strict linear inequalities the standard working model for the contradictory two class pattern recognition problem in its geometric setting The universal language of oriented matroid theory considerably simplifies a structural and enumerative analysis of applied aspects of the infeasibility phenomenon The present book is devoted to several selected topics in the emerging theory of pattern recognition on oriented matroids the questions of existence and applicability of matroidal generalizations of committee decision rules and related graph theoretic constructions to oriented matroids with very weak restrictions on their structural properties a study in which in particular interesting subsequences of the Farey sequence appear naturally of the hierarchy of the corresponding tope committees a description of the three tope committees that are the most attractive approximation to the notion of solution to an infeasible system of linear constraints an application of convexity in oriented matroids as well as blocker constructions in combinatorial optimization and in poset theory to enumerative problems on tope committees an attempt to clarify how elementary changes one element reorientations in an oriented matroid affect the family of its tope committees a discrete Fourier analysis of the important family of critical tope committees through rank and distance relations in the tope poset and the tope graph the characterization of a key combinatorial role played by the symmetric cycles in hypercube graphs Contents Oriented Matroids the Pattern Recognition Problem and Tope Committees Boolean Intervals Dehn Sommerville Type Relations Farey Subsequences Blocking Sets of Set Families and Absolute Blocking Constructions in Posets Committees of Set Families and Relative Blocking Constructions in Posets Layers of Tope Committees Three Tope Committees Halfspaces Convex Sets and Tope Committees Tope Committees and Reorientations of Oriented Matroids Topes and Critical Committees Critical Committees and Distance Signals Symmetric Cycles in the Hypercube Graphs Topics in Graph Automorphisms and Reconstruction Josef Lauri, Raffaele Scapellato, 2016-06-02 An in depth coverage of selected areas of graph theory focusing on symmetry properties of graphs ideal for beginners and specialists **Communicating Process Architectures 2017 & 2018** J. Bækgaard Pedersen, K. Chalmers, J.F. Broenink, 2019-03-26 Concurrent and parallel systems are intrinsic to the technology which underpins almost every aspect of our lives today This book presents the combined post proceedings for two important conferences on concurrent and parallel systems Communicating Process Architectures 2017 held in Sliema Malta in August 2017 and Communicating Process Architectures 2018 held in Dresden Germany in August 2018 CPA 2017 Fifteen papers were accepted for presentation and publication they cover topics including mathematical theory programming languages design and support tools verification and multicore infrastructure and applications ranging from supercomputing to embedded A workshop on domain specific concurrency skeletons and the abstracts of eight fringe presentations reporting on new ideas work in progress or interesting thoughts associated with concurrency are also included in these proceedings CPA 2018 Eighteen papers were accepted for presentation and publication they cover topics including mathematical theory

design and programming language and support tools verification multicore run time infrastructure and applications at all levels from supercomputing to embedded A workshop on translating CSP based languages to common programming languages and the abstracts of four fringe presentations on work in progress new ideas as well as demonstrations and concerns that certain common practices in concurrency are harmful are also included in these proceedings The book will be of interest to all those whose work involves concurrent and parallel systems

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 Maple™ and Mathematica™

Handbook of Graph Theory, Second Edition Jonathan L. Gross, Jay Yellen, Ping Zhang, 2013-12-17 In the ten years since the publication of the best selling first edition more than 1 000 graph theory papers have been published each year Reflecting these advances Handbook of Graph Theory Second Edition provides comprehensive coverage of the main topics in pure and applied graph theory This second edition over 400 pages longer than its predecessor incorporates 14 new sections Each chapter includes lists of essential definitions and facts accompanied by examples tables remarks and in some cases conjectures and open problems A bibliography at the end of each chapter provides an extensive guide to the research literature and pointers to monographs In addition a glossary is included in each chapter as well as at the end of each section This edition also contains notes regarding terminology and notation With 34 new contributors this handbook is the most comprehensive single source guide to graph theory It emphasizes quick accessibility to topics for non experts and enables easy cross referencing among chapters

Groups, Graphs and Random Walks Tullio Ceccherini-Silberstein, Maura

Salvatori, Ecaterina Sava-Huss, 2017-06-29 An up to date panoramic account of the theory of random walks on groups and graphs outlining connections with various mathematical fields **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 **Permutation Groups and Cartesian Decompositions** Cheryl E. Praeger, Csaba Schneider, 2018-05-03 Concise introduction to permutation groups focusing on invariant cartesian decompositions and applications in algebra and combinatorics *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 A Multidisciplinary Introduction to Information Security Stig F. Mjolsnes, 2011-11-09 With most services and products now being offered through digital communications new challenges have emerged for information security specialists A Multidisciplinary Introduction to Information Security presents a range of topics on the security privacy and safety of information and communication technology It brings together methods in pure m *3rd URV Doctoral Workshop in Computer Science and Mathematics* Sergio Gómez, Aïda Valls Mateu, 2016-12-01 This proceeding book contains the contributions presented at the 3rd URV Doctoral workshop in Computer Science and Mathematics held in November 2016 The main aim of this workshop is to promote the dissemination of the ideas methods and results that are developed by the students of our PhD program **Combinatorics** Nicholas Loehr, 2017-08-10 Combinatorics Second Edition is a well rounded general introduction to the subjects of enumerative bijective and algebraic combinatorics The textbook emphasizes bijective proofs which provide elegant solutions to counting problems by setting up one to one correspondences between two sets of combinatorial objects The author has written the textbook to be accessible to readers without any prior background in abstract algebra or combinatorics Part I of the second edition develops an array of mathematical tools to solve counting problems basic counting rules recursions inclusion exclusion techniques generating functions bijective proofs and linear algebraic methods These tools are used to analyze combinatorial structures such as words permutations subsets functions graphs trees lattice paths and much more Part II cover topics in algebraic combinatorics including group actions permutation statistics symmetric functions and tableau combinatorics This edition provides greater coverage of the use of ordinary and exponential generating functions as a problem solving tool Along with two new chapters several new sections

and improved exposition throughout the textbook is brimming with many examples and exercises of various levels of difficulty

Graph Searching Games and Probabilistic Methods Anthony Bonato, Pawel Pralat, 2017-11-28 Graph Searching Games and Probabilistic Methods is the first book that focuses on the intersection of graph searching games and probabilistic methods The book explores various applications of these powerful mathematical tools to games and processes such as Cops and Robbers Zombie and Survivors and Firefighting Written in an engaging style the book is accessible to a wide audience including mathematicians and computer scientists Readers will find that the book provides state of the art results techniques and directions in graph searching games especially from the point of view of probabilistic methods The authors describe three directions while providing numerous examples which include Playing a deterministic game on a random board Players making random moves Probabilistic methods used to analyze a deterministic game Mathematical Principles of the Internet, Volume 2 Nirdosh Bhatnagar, 2018-11-21 This two volume set on Mathematical Principles of the Internet provides a comprehensive overview of the mathematical principles of Internet engineering The books do not aim to provide all of the mathematical foundations upon which the Internet is based Instead they cover a partial panorama and the key principles Volume 1 explores Internet engineering while the supporting mathematics is covered in Volume 2 The chapters on mathematics complement those on the engineering episodes and an effort has been made to make this work succinct yet self contained Elements of information theory algebraic coding theory cryptography Internet traffic dynamics and control of Internet congestion and queueing theory are discussed In addition stochastic networks graph theoretic algorithms application of game theory to the Internet Internet economics data mining and knowledge discovery and quantum computation communication and cryptography are also discussed In order to study the structure and function of the Internet only a basic knowledge of number theory abstract algebra matrices and determinants graph theory geometry analysis optimization theory probability theory and stochastic processes is required These mathematical disciplines are defined and developed in the books to the extent that is needed to develop and justify their application to Internet engineering

Spectral Analysis of Growing Graphs Nobuaki Obata, 2017-02-17 This book is designed as a concise introduction to the recent achievements on spectral analysis of graphs or networks from the point of view of quantum or non commutative probability theory The main topics are spectral distributions of the adjacency matrices of finite or infinite graphs and their limit distributions for growing graphs The main vehicle is quantum probability an algebraic extension of the traditional probability theory which provides a new framework for the analysis of adjacency matrices revealing their non commutative nature For example the method of quantum decomposition makes it possible to study spectral distributions by means of interacting Fock spaces or equivalently by orthogonal polynomials Various concepts of independence in quantum probability and corresponding central limit theorems are used for the asymptotic study of spectral distributions for product graphs This book is written for researchers teachers and students interested in graph spectra their asymptotic spectral distributions and

various ideas and methods on the basis of quantum probability It is also useful for a quick introduction to quantum probability and for an analytic basis of orthogonal polynomials

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