

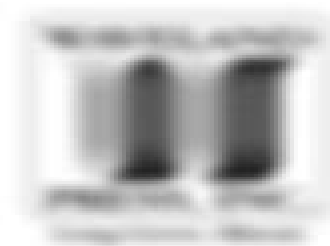
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# DISCRETE MATHEMATICS

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Gary Chartrand and Ping Zhang

*Western Michigan University*



# Discrete Mathematics By Gary Chartrand Ping Zhang

**Gary Chartrand, Ping Zhang**



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**Discrete Mathematics** Gary Chartrand, Ping Zhang, 2011-03-31 Chartrand and Zhang's Discrete Mathematics presents a clearly written student friendly introduction to discrete mathematics. The authors draw from their background as researchers and educators to offer lucid discussions and descriptions fundamental to the subject of discrete mathematics. Unique among discrete mathematics textbooks for its treatment of proof techniques and graph theory topics discussed also include logic relations and functions especially equivalence relations and bijective functions algorithms and analysis of algorithms introduction to number theory combinatorics counting the Pascal triangle and the binomial theorem discrete probability partially ordered sets lattices and Boolean algebras cryptography and finite state machines. This highly versatile text provides mathematical background used in a wide variety of disciplines including mathematics and mathematics education computer science biology chemistry engineering communications and business. Some of the major features and strengths of this textbook: Numerous carefully explained examples and applications facilitate learning. More than 1 600 exercises ranging from elementary to challenging are included with hints answers to all odd numbered exercises. Descriptions of proof techniques are accessible and lively. Students benefit from the historical discussions throughout the textbook. *A First Course in Graph Theory* Gary Chartrand, Ping Zhang, 2012-01-01 Written by two of the most prominent figures in the field of graph theory this comprehensive text provides a remarkably student friendly approach. Geared toward undergraduates taking a first course in graph theory its sound yet accessible treatment emphasizes the history of graph theory and offers unique examples and lucid proofs. 2004 edition.

**Discrete Mathematics** Dr. K. Umamaheswara Rao, Dr. M. Nagapavani, Dr. Divvela Srinivasa Rao, Mr. Anil Kumar, 2025-09-08 Discrete Mathematics is the study of mathematical structures that are fundamentally countable or distinct rather than continuous. It provides the foundational concepts and tools used in computer science information technology and related fields. Key topics include logic set theory combinatorics graph theory relations functions and discrete probability. Discrete mathematics is essential for designing algorithms analyzing computational processes modeling networks and developing cryptography and database systems. Its principles underpin modern computing and digital system design.

**Introductory Discrete Mathematics** V. K. Balakrishnan, 2012-04-30 This concise undergraduate level text focuses on combinatorics graph theory with applications to some standard network optimization problems and algorithms. More than 200 exercises many with complete solutions. 1991 edition. **Mastering Discrete Mathematics** Gautami Devar, 2025-02-20 Mastering Discrete Mathematics is a comprehensive and accessible resource designed to provide readers with a thorough understanding of the fundamental concepts techniques and applications of discrete mathematics. Written for students educators researchers and practitioners we offer a detailed overview of discrete mathematics a field that deals with countable distinct objects and structures. We cover a wide range of topics including sets logic proof techniques combinatorics graph theory recurrence relations and generating functions. Our clear and concise language makes complex mathematical

concepts accessible to readers with varying levels of mathematical background Each concept is illustrated with examples and applications to demonstrate its relevance and practical significance in various domains Emphasizing the practical applications of discrete mathematics we explore its use in computer science cryptography optimization network theory and other scientific disciplines Each chapter includes exercises and problems to reinforce learning test understanding and encourage further exploration of the material Additional resources including supplementary materials interactive exercises and solutions to selected problems are available online to complement the book and facilitate self study and review Whether you are a student looking to gain a solid foundation in discrete mathematics an educator seeking to enhance your teaching materials or a practitioner interested in applying discrete mathematics techniques to real world problems Mastering Discrete Mathematics offers valuable insights and resources to support your learning and exploration of this fascinating field

**Discrete Mathematics with Ducks** Sarah-Marie Belcastro, 2018-11-15 Discrete Mathematics with Ducks Second Edition is a gentle introduction for students who find the proofs and abstractions of mathematics challenging At the same time it provides stimulating material that instructors can use for more advanced students The first edition was widely well received with its whimsical writing style and numerous exercises and materials that engaged students at all levels The new expanded edition continues to facilitate effective and active learning It is designed to help students learn about discrete mathematics through problem based activities These are created to inspire students to understand mathematics by actively practicing and doing which helps students better retain what they've learned As such each chapter contains a mixture of discovery based activities projects expository text in class exercises and homework problems The author's lively and friendly writing style is appealing to both instructors and students alike and encourages readers to learn The book's light hearted approach to the subject is a guiding principle and helps students learn mathematical abstraction Features The book's Try This sections encourage students to construct components of discussed concepts theorems and proofs Provided sets of discovery problems and illustrative examples reinforce learning Bonus sections can be used by instructors as part of their regular curriculum for projects or for further study

[Chromatic Graph Theory](#) Gary Chartrand, Ping Zhang, 2019-11-28 With Chromatic Graph Theory Second Edition the authors present various fundamentals of graph theory that lie outside of graph colorings including basic terminology and results trees and connectivity Eulerian and Hamiltonian graphs matchings and factorizations and graph embeddings Readers will see that the authors accomplished the primary goal of this textbook which is to introduce graph theory with a coloring theme and to look at graph colorings in various ways The textbook also covers vertex colorings and bounds for the chromatic number vertex colorings of graphs embedded on surfaces and a variety of restricted vertex colorings The authors also describe edge colorings monochromatic and rainbow edge colorings complete vertex colorings several distinguishing vertex and edge colorings Features of the Second Edition The book can be used for a first course in graph theory as well as a graduate course The primary topic in the book is graph coloring The book begins

with an introduction to graph theory so assumes no previous course The authors are the most widely published team on graph theory Many new examples and exercises enhance the new edition

**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

**Handbook of Graph Drawing and Visualization** Roberto Tamassia, 2013-08-19 Get an In Depth Understanding of Graph Drawing Techniques Algorithms Software and Applications The Handbook of Graph Drawing and Visualization provides a broad up to date survey of the field of graph drawing It covers topological and geometric foundations algorithms software systems and visualization applications in business education science and engineering Each chapter is self contained and includes extensive references The first several chapters of the book deal with fundamental topological and geometric concepts and techniques used in graph drawing such as planarity testing and embedding crossings and planarization symmetric drawings and proximity drawings The following chapters present a large collection of algorithms for constructing drawings of graphs including tree planar straight line planar orthogonal and polyline spine and radial circular rectangular hierarchical and three dimensional drawings as well as labeling algorithms simultaneous embeddings and force directed methods The book then introduces the

GraphML language for representing graphs and their drawings and describes three software systems for constructing drawings of graphs OGDF GDFToolKit and PIGALE The final chapters illustrate the use of graph drawing methods in visualization applications for biological networks computer security data analytics education computer networks and social networks Edited by a pioneer in graph drawing and with contributions from leaders in the graph drawing research community this handbook shows how graph drawing and visualization can be applied in the physical life and social sciences Whether you are a mathematics researcher IT practitioner or software developer the book will help you understand graph drawing methods and graph visualization systems use graph drawing techniques in your research and incorporate graph drawing solutions in your products Mathematical Combinatorics, Vol. 1/2010 Linfan Mao, Papers on Singed Total Domatic Number of a Graph Euler Savarys Formula for the Planar Curves in Two Dimensional Lightlike Cone Dynamical Knot and Their Fundamental Group Counting Rooted Eulerian Planar Maps and other topics Contributors H B Walikar Shailaja S Shirkol Kishori P Narayankar B Sooryanarayana Vishu Kumar M Manjula K P Siva Kota Reddy S Vijay V Lokesha Junliang Cai Yanpei Liu and others International Journal of Mathematical Combinatorics, Volume 1, 2010 Linfan Mao, The International J Mathematical Combinatorics is a fully refereed international journal sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly which publishes original research papers and survey articles in all aspects of mathematical combinatorics Smarandache multi spaces Smarandache geometries non Euclidean geometry topology and their applications to other sciences 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 **Mathematical Combinatorics, vol. II, 2014** Linfan Mao, Papers on Ruled Surfaces in Minkowski 3 Space Enumeration of k Fibonacci Paths Using Infinite Weighted Automata The Natural Lift Curves and Geodesic Curvatures of the Spherical Indicatrices of The Spacelike Timelike Bertrand Curve Pair Magic Properties of Special Class of Trees and other topics Contributors V Ramachandran C Sekar Rodrigo De Castro Jose L Ramirez Nagesh H M R Chandrasekhar A Vijayalekshmi S Suganthi V Swaminathan Arunesh Pandey V K Chaubey T N Pandey and others **International Journal of Mathematical Combinatorics, Volume 2, 2014** Linfan

Mao, The International J Mathematical Combinatorics is a fully refereed international journal sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly which publishes original research papers and survey articles in all aspects of mathematical combinatorics Smarandache multi spaces Smarandache geometries non Euclidean geometry topology and their applications to other sciences

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*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

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