# DISCRETE MATHEMATICS

Gary Chartrand . Ping Zhang

# **Discrete Mathematics By Gary Chartrand Ping Zhang**

**Arthur James Wells** 

### **Discrete Mathematics By Gary Chartrand Ping Zhang:**

**Discrete Mathematics** Gary Chartrand, Ping Zhang, 2011-03-31 Chartrand and Zhangs 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 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 Introduction to Combinatorics Walter D. Wallis, John C. George, 2016-12-12 What Is Combinatorics proofs 2004 edition 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 *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

Multidisciplinary Research in Arts, Science & Commerce (Volume-16) Chief Editor- Biplab Auddya, Editor-Abhishek Bajaj, Mrs. Ripsi Arora, Dr. Jay Prakash Rajak, Dr. Sakina Tanveer Alware, Varsha Burman, Dr. Sachin Hemraj Dhawankar, 2024-12-26 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 and Decomposition Jomon Kottarathil, Sudev Naduvath, Joseph Varghese Kureethara, 2024-04-10 The book Graph Theory and Decomposition covers major areas of the decomposition of graphs It is a three part reference book with nine chapters that is aimed at enthusiasts as well as research scholars It comprehends historical evolution and basic terminologies and it deliberates on decompositions into cyclic graphs such as cycle digraph and K4 e decompositions. In addition to determining the pendant number of graphs it has a discourse on decomposing a graph into acyclic graphs like general tree path and star decompositions It summarises another recently developed decomposition technique which decomposes the given graph into multiple types of subgraphs Major conjectures on graph decompositions are elaborately discussed It alludes to a comprehensive bibliography that includes over 500 monographs and journal articles It includes more than 500 theorems around 100 definitions 56 conjectures 40 open problems and an algorithm The index section facilitates easy access to definitions major conjectures and named theorems Thus the book Graph Theory and Decomposition will be a great asset we hope in the field of decompositions of graphs and will serve as a reference book for all who are passionate about graph Graph Polynomials Yongtang Shi, Matthias Dehmer, Xueliang Li, Ivan Gutman, 2016-11-25 This book covers both theory 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 Crossina 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. \*Commutation Relations, Normal Ordering, and Stirling Numbers\*\* Toufik Mansour, Matthias Schork, 2015-09-18 Commutation Relations Normal Ordering and Stirling Numbers provides an introduction to the combinatorial aspects of normal ordering in the Weyl algebra and some of its close relatives. The Weyl algebra is the algebra generated by two letters U and V subject to the commutation relation UV VU I It is a classical result that normal ordering pow. \*An Introduction to Discrete Mathematics\*\* Gary Chartrand, Ping Zhang, 2008-02

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Irregularity in Graphs Akbar Ali, Gary Chartrand, Ping Zhang, 2021-05-20 Die Theorie der regularen Graphen The Theory of Regular Graphs written by the Danish Mathematician Julius Petersen in 1891 is often considered the first strictly theoretical paper dealing with graphs In the 130 years since then regular graphs have been a common and popular area of study While regular graphs are typically considered to be graphs whose vertices all have the same degree a more general interpretation is that of graphs possessing some common characteristic throughout their structure During the past several decades however there has been some increased interest in investigating graphs possessing a property that is in a sense opposite to regularity It is this topic with which this book deals giving rise to a study of what might be called irregularity in graphs Here various irregularity concepts dealing with several topics in graph theory are described such as degrees of vertices graph labelings weightings colorings graph structures Eulerian and Hamiltonian properties graph decompositions and Ramsey type problems — 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

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