Discrete Mathematics
A Unified Approach

DISCRETE MATHEMATICS
A Unified Approach

Stephen A. Wiitala
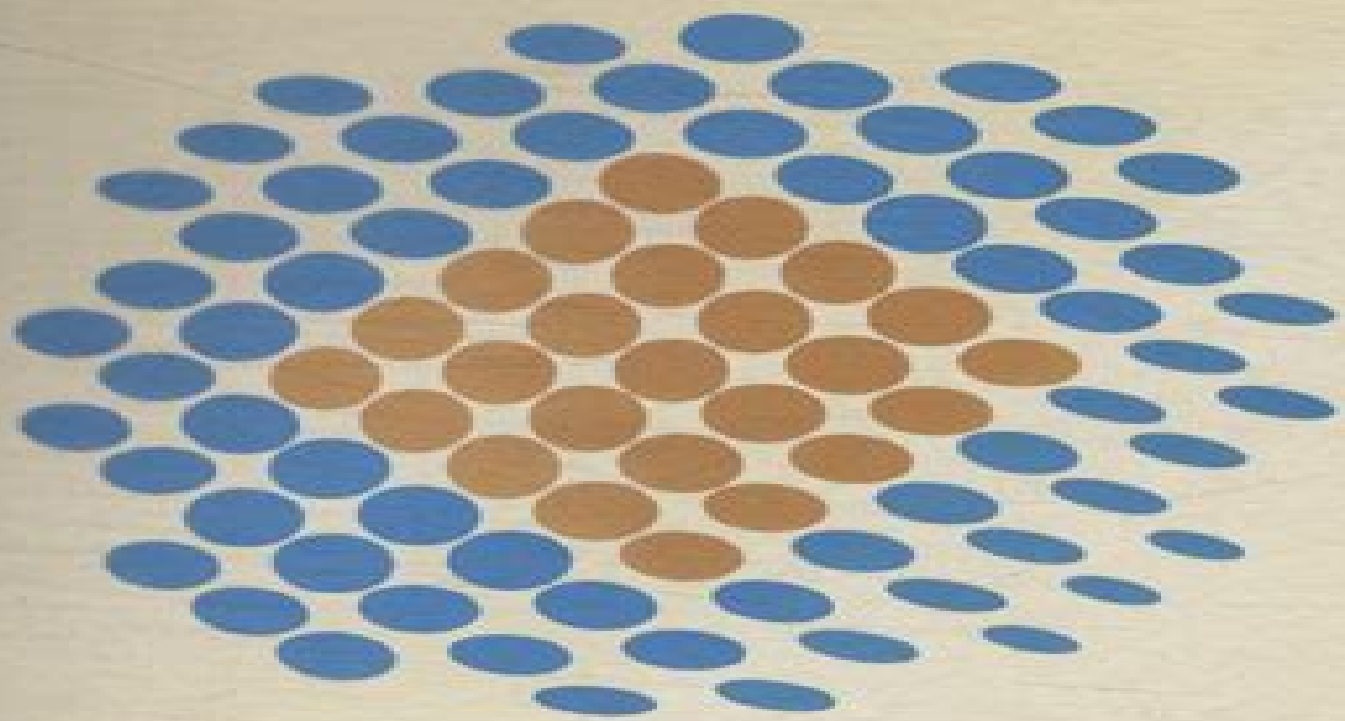
Discrete Mathematics A Unified Approach

Rosina Ehmann

Discrete Mathematics A Unified Approach:

Discrete Mathematics Stephen A. Wiitala,1987 **Discrete Mathematics** Stephen A. Wiitala,1987 *A Brief Journey in Discrete Mathematics* Randolph Nelson,2020-02-11 The goal of this book is to showcase the beauty of mathematics as revealed in nine topics of discrete mathematics In each chapter properties are explored through a series of straightforward questions that terminate with results that lie at the doorstep of a field of study Each step along the way is elementary and requires only algebraic manipulation This frames the wonder of mathematics and highlights the complex world that lies behind a series of simple mathematical deductions Topics addressed include combinatorics unifying properties of symmetric functions the Golden ratio as it leads to k bonacci numbers non intuitive and surprising results found in a simple coin tossing game the playful trick question aspect of modular systems exploration of basic properties of prime numbers and derivations of bewildering results that arise from approximating irrational numbers as continued fraction expansions The Appendix contains the basic tools of mathematics that are used in the text along with a numerous list of identities that are derived in the body of the book The mathematics in the book is derived from first principles On only one occasion does it rely on a result not derived within the text Since the book does not require calculus or advanced techniques it should be accessible to advanced high school students and undergraduates in math or computer science Senior mathematicians might be unfamiliar with some of the topics addressed in its pages or find interest in the book s unified approach to discrete math Theoretical Computer Science Oded Goldreich,Arnold L. Rosenberg,2006-03-22 This volume commemorates Shimon Even one of founding fathers of Computer Science in Israel who passed away on May 1 2004 This Festschrift contains research contributions surveys and educational essays in theoretical computer science written by former students and close collaborators of Shimon The essays address natural computational problems and are accessible to most researchers in theoretical computer science **Graph Theory, Combinatorics and Algorithms** Martin Charles Golumbic,Irith Ben-Arroyo Hartman,2006-03-30 Graph Theory Combinatorics and Algorithms Interdisciplinary Applications focuses on discrete mathematics and combinatorial algorithms interacting with real world problems in computer science operations research applied mathematics and engineering The book contains eleven chapters written by experts in their respective fields and covers a wide spectrum of high interest problems across these discipline domains Among the contributing authors are Richard Karp of UC Berkeley and Robert Tarjan of Princeton both are at the pinnacle of research scholarship in Graph Theory and Combinatorics The chapters from the contributing authors focus on real world applications all of which will be of considerable interest across the areas of Operations Research Computer Science Applied Mathematics and Engineering These problems include Internet congestion control high speed communication networks multi object auctions resource allocation software testing data structures etc In sum this is a book focused on major contemporary problems written by the top research scholars in the field using cutting edge mathematical and computational techniques **Algorithms - ESA**

2006 Yossi Azar,Thomas Erlebach,2006-09-12 This book constitutes the refereed proceedings of the 14th Annual European Symposium on Algorithms ESA 2006 held in Zurich Switzerland in the context of the combined conference ALGO 2006 The book presents 70 revised full papers together with abstracts of 3 invited lectures The papers address all current subjects in algorithmics reaching from design and analysis issues of algorithms over to real world applications and engineering of algorithms in various fields   Bioinformatics Algorithms Ion Mandoiu,Alexander Zelikovsky,2008-03-11 Presents algorithmic techniques for solving problems in bioinformatics including applications that shed new light on molecular biology This book introduces algorithmic techniques in bioinformatics emphasizing their application to solving novel problems in post genomic molecular biology Beginning with a thought provoking discussion on the role of algorithms in twenty first century bioinformatics education Bioinformatics Algorithms covers General algorithmic techniques including dynamic programming graph theoretical methods hidden Markov models the fast Fourier transform seeding and approximation algorithms Algorithms and tools for genome and sequence analysis including formal and approximate models for gene clusters advanced algorithms for non overlapping local alignments and genome tilings multiplex PCR primer set selection and sequence network motif finding Microarray design and analysis including algorithms for microarray physical design missing value imputation and meta analysis of gene expression data Algorithmic issues arising in the analysis of genetic variation across human population including computational inference of haplotypes from genotype data and disease association search in case control epidemiologic studies Algorithmic approaches in structural and systems biology including topological and structural classification in biochemistry and prediction of protein protein and domain domain interactions Each chapter begins with a self contained introduction to a computational problem continues with a brief review of the existing literature on the subject and an in depth description of recent algorithmic and methodological developments and concludes with a brief experimental study and a discussion of open research challenges This clear and approachable presentation makes the book appropriate for researchers practitioners and graduate students alike   *Computational Methods in Decision-Making, Economics and Finance* Erricos John Kontoghiorghes,B. Rustem,S. Siokos,2013-11-11 Computing has become essential for the modeling analysis and optimization of systems This book is devoted to algorithms computational analysis and decision models The chapters are organized in two parts optimization models of decisions and models of pricing and equilibria

    Fundamental Approach to Discrete Mathematics D. P. Acharjya,2009 About the Book The book Fundamental Approach to Discrete Mathematics is a required part of pursuing a computer science degree at most universities It provides in depth knowledge to the subject for beginners and stimulates further interest in the topic The salient features of this book include Strong coverage of key topics involving recurrence relation combinatorics Boolean algebra graph theory and fuzzy set theory Algorithms and examples integrated throughout the book to bring clarity to the fundamental concepts Each concept and definition is followed by thoughtful examples   **Approximation and Online Algorithms** Thomas Erlebach,Giuseppe

Persiano,2006-02-16 This book constitutes the thoroughly refereed post proceedings of the Third International Workshop on Approximation and Online Algorithms held in Palma de in October 2005 The 26 revised full papers presented were carefully reviewed and selected from 68 submissions Topics addressed by the workshop include algorithmic game theory approximation classes coloring and partitioning competitive analysis computational finance cuts and connectivity geometric problems and mechanism design 加里斯图尔特马森特劳特曼斯赖德 斯图尔特马森特劳特曼斯赖德,1988 A Logical Approach to Discrete Math David Gries,Fred B. Schneider,2013-03-14 This text attempts to change the way we teach logic to beginning students Instead of teaching logic as a subject in isolation we regard it as a basic tool and show how to use it We strive to give students a skill in the propo sitional and predicate calculi and then to exercise that skill thoroughly in applications that arise in computer science and discrete mathematics We are not logicians but programming methodologists and this text reflects that perspective We are among the first generation of scientists who are more interested in using logic than in studying it With this text we hope to empower further generations of computer scientists and math ematicians to become serious users of logic Logic is the glue Logic is the glue that binds together methods of reasoning in all domains The traditional proof methods for example proof by assumption con tradiction mutual implication and induction have their basis in formal logic Thus whether proofs are to be presented formally or informally a study of logic can provide understanding **Artificial Neural Networks** Robert J. Schalkoff,1997 While the primary objective of the text is to provide a teaching tool practicing engineers and scientists are likely to find the clear concept based treatment useful in updating their backgrounds 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 **Prealgebra** Richard N. Aufmann,1999 *The American Mathematical Monthly* ,1978 Includes articles as well as notes and other features about mathematics and the profession **The Construction of Formal Specifications** John G. Turner,T. Lee McCluskey,1994 Introducing two widely used approaches to the formal specification of software systems this book considers VDM and the algebraic approach In each case the emphasis is intuitive rather than mathematical and shows the reader how to construct a formal specification from the first principles by using general procedures that can be followed each time Familiar applications are referred to throughout and examples small case studies and problems accompany each chapter The two approaches are brought together in one large joint case study at the end of the book as well as a section comparing and contrasting them Discrete Mathematics Martin Aigner,2023-01-24 The advent of fast computers and the search for efficient algorithms revolutionized combinatorics and brought about the field of

discrete mathematics This book is an introduction to the main ideas and results of discrete mathematics and with its emphasis on algorithms it should be interesting to mathematicians and computer scientists alike The book is organized into three parts enumeration graphs and algorithms and algebraic systems There are 600 exercises with hints and solutions to about half of them The only prerequisites for understanding everything in the book are linear algebra and calculus at the undergraduate level Praise for the German edition This book is a well written introduction to discrete mathematics and is highly recommended to every student of mathematics and computer science as well as to teachers of these topics Konrad Engel for MathSciNet Martin Aigner is a professor of mathematics at the Free University of Berlin He received his PhD at the University of Vienna and has held a number of positions in the USA and Germany before moving to Berlin He is the author of several books on discrete mathematics graph theory and the theory of search The Monthly article Turan s graph theorem earned him a 1995 Lester R Ford Prize of the MAA for expository writing and his book Proofs from the BOOK with G nter M Ziegler has been an international success with translations into 12 languages   *Government Reports Announcements & Index* ,1988   Ars Combinatoria ,2001

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