DISCRETE MATHEMATICS

AN OPEN INTRODUCTION

OSCAR LEVIN

2ND EDITION

Discrete Math

Oscar Levin

Discrete Math:

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   **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   **Discrete Mathematics** Oscar Levin,2018-12-31 Note This is the 3rd edition If you need the 2nd edition for a course you are taking it can be found as a other format on amazon or by searching its isbn 1534970746 This gentle introduction to discrete mathematics is written for first and second year math majors especially those who intend to teach The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado This course serves both as an introduction to topics in discrete math and as the introduction to proof course for math majors The course is usually taught with a large amount of student inquiry and this text is written to help facilitate this Four main topics are covered counting sequences logic and graph theory Along the way proofs are introduced including proofs by contradiction proofs by induction and combinatorial proofs The book contains over 470 exercises including 275 with solutions

and over 100 with hints There are also Investigate activities throughout the text to support active inquiry based learning While there are many fine discrete math textbooks available this text has the following advantages It is written to be used in an inquiry rich course It is written to be used in a course for future math teachers It is open source with low cost print editions and free electronic editions This third edition brings improved exposition a new section on trees and a bunch of new and improved exercises For a complete list of changes and to view the free electronic version of the text visit the book s website at discrete openmathbooks org **Essentials of Discrete Mathematics** David J. Hunter,2021-03-01 Written for the one term course Essentials of Discrete Mathematics Fourth Edition is designed to serve computer science and mathematics majors as well as students from a wide range of other disciplines The mathematical material is organized around five types of thinking logical relational recursive quantitative and analytical The final chapter Thinking Through Applications looks at different ways that discrete math thinking can be applied Applications are included throughout the text and are sourced from a variety of disciplines including biology economics music and more *Discrete Mathematics:* Babu Ram,1900 Discrete Mathematics will be of use to any undergraduate as well as post graduate courses in Computer Science and Mathematics The syllabi of all these courses have been studied in depth and utmost care has been taken to ensure that all the essenti Discrete Mathematics Martin Aigner, 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 andsolutions 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 ofmathematics 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 theMAA for expository writing and his book Proofs from the BOOK with Gunter M Ziegler has been an international success with translations into 12 languages **Discrete Mathematics and Its Applications** Kenneth H. Rosen,2002-09-01 Discrete Mathematics and its Applications is a focused introduction to the primary themes in a discrete mathematics course as introduced through extensive applications expansive discussion and detailed exercise sets These themes include mathematical reasoning combinatorial analysis discrete structures algorithmic thinking and enhanced problem solving skills through modeling Its intent is to demonstrate the relevance and practicality of discrete mathematics to all students The Fifth Edition includes a

more thorough and linear presentation of logic proof types and proof writing and mathematical reasoning This enhanced coverage will provide students with a solid understanding of the material as it relates to their immediate field of study and other relevant subjects The inclusion of applications and examples to key topics has been significantly addressed to add clarity to every subject True to the Fourth Edition the text specific web site supplements the subject matter in meaningful ways offering additional material for students and instructors Discrete math is an active subject with new discoveries made every year The continual growth and updates to the web site reflect the active nature of the topics being discussed The book is appropriate for a one or two term introductory discrete mathematics course to be taken by students in a wide variety of majors including computer science mathematics and engineering College Algebra is the only explicit prerequisite

   ADVANCED DISCRETE MATHEMATICS UDAY SINGH RAJPUT,2012-05-26 Written in an accessible style this text provides a complete coverage of discrete mathematics and its applications at an appropriate level of rigour The book discusses algebraic structures mathematical logic lattices Boolean algebra graph theory automata theory grammars and recurrence relations It covers the important topics such as coding theory Dijkstra s shortest path algorithm reverse polish notation Warshall s algorithm Menger s theorem Turing machine and LR k parsers which form a part of the fundamental applications of discrete mathematics in computer science In addition Pigeonhole principle ring homomorphism field and integral domain trees network flows languages and recurrence relations The text is supported with a large number of examples worked out problems and diagrams that help students understand the theoretical explanations The book is intended as a text for postgraduate students of mathematics computer science and computer applications In addition it will be extremely useful for the undergraduate students of computer science and engineering   A First Course in Discrete Mathematics John C. Molluzzo,Fred Buckley,1997-01-28 This highly regarded work fills the need for a treatment of elementary discrete mathematics that provides a core of mathematical terminology and concepts as well as emphasizes computer applications Includes numerous elementary applications to computing and examples with solutions   **Discrete Mathematics** Jean Gallier,2011-02-01 This books gives an introduction to discrete mathematics for beginning undergraduates One of original features of this book is that it begins with a presentation of the rules of logic as used in mathematics Many examples of formal and informal proofs are given With this logical framework firmly in place the book describes the major axioms of set theory and introduces the natural numbers The rest of the book is more standard It deals with functions and relations directed and undirected graphs and an introduction to combinatorics There is a section on public key cryptography and RSA with complete proofs of Fermat s little theorem and the correctness of the RSA scheme as well as explicit algorithms to perform modular arithmetic The last chapter provides more graph theory Eulerian and Hamiltonian cycles are discussed Then we study flows and tensions and state and prove the max flow min cut theorem We also discuss matchings covering bipartite graphs   **Discrete Mathematics with Proof** Eric Gossett,2009-06-22 A Trusted Guide to

Discrete Mathematics with Proof Now in a Newly Revised Edition Discrete mathematics has become increasingly popular in recent years due to its growing applications in the field of computer science Discrete Mathematics with Proof Second Edition continues to facilitate an up to date understanding of this important topic exposing readers to a wide range of modern and technological applications The book begins with an introductory chapter that provides an accessible explanation of discrete mathematics Subsequent chapters explore additional related topics including counting finite probability theory recursion formal models in computer science graph theory trees the concepts of functions and relations Additional features of the Second Edition include An intense focus on the formal settings of proofs and their techniques such as constructive proofs proof by contradiction and combinatorial proofs New sections on applications of elementary number theory multidimensional induction counting tulips and the binomial distribution Important examples from the field of computer science presented as applications including the Halting problem Shannon s mathematical model of information regular expressions XML and Normal Forms in relational databases Numerous examples that are not often found in books on discrete mathematics including the deferred acceptance algorithm the Boyer Moore algorithm for pattern matching Sierpinski curves adaptive quadrature the Josephus problem and the five color theorem Extensive appendices that outline supplemental material on analyzing claims and writing mathematics along with solutions to selected chapter exercises Combinatorics receives a full chapter treatment that extends beyond the combinations and permutations material by delving into non standard topics such as Latin squares finite projective planes balanced incomplete block designs coding theory partitions occupancy problems Stirling numbers Ramsey numbers and systems of distinct representatives A related Web site features animations and visualizations of combinatorial proofs that assist readers with comprehension In addition approximately 500 examples and over 2 800 exercises are presented throughout the book to motivate ideas and illustrate the proofs and conclusions of theorems Assuming only a basic background in calculus Discrete Mathematics with Proof Second Edition is an excellent book for mathematics and computer science courses at the undergraduate level It is also a valuable resource for professionals in various technical fields who would like an introduction to discrete mathematics *Discrete Mathematics Through Applications* Nancy Crisler,Gary Froelich,2005-12-23 Listen here for author Nancy Crisler s introduction to Discrete Mathematics Through Applications Written specifically for high school courses Discrete Mathematics Through Applications is designed to help you put the established NCTM Standards for Discrete Math to work in your classroom in a way that promotes active learning critical thinking and fully engaged student participation With this text students will see the connections among mathematical topics and real life events and situations while sharpening their problem solving mathematical reasoning and communication skills The new edition adds new topics and significantly revised exercise sets and enhanced supplements *Introduction to Discrete Mathematics via Logic and Proof* Calvin Jongsma,2019-11-08 This textbook introduces discrete mathematics by emphasizing the importance of reading and writing proofs Because it begins by

carefully establishing a familiarity with mathematical logic and proof this approach suits not only a discrete mathematics course but can also function as a transition to proof Its unique deductive perspective on mathematical logic provides students with the tools to more deeply understand mathematical methodology an approach that the author has successfully classroom tested for decades Chapters are helpfully organized so that as they escalate in complexity their underlying connections are easily identifiable Mathematical logic and proofs are first introduced before moving onto more complex topics in discrete mathematics Some of these topics include Mathematical and structural induction Set theory Combinatorics Functions relations and ordered sets Boolean algebra and Boolean functions Graph theory Introduction to Discrete Mathematics via Logic and Proof will suit intermediate undergraduates majoring in mathematics computer science engineering and related subjects with no formal prerequisites beyond a background in secondary mathematics   <u>Discrete Mathematics in the Schools</u> Joseph G. Rosenstein, This book provides teachers of all levels with a great deal of valuable material to help them introduce discrete mathematics into their classrooms   <u>Pearls of Discrete Mathematics</u> Martin Erickson,2009-09-16 Methods Used to Solve Discrete Math ProblemsInteresting examples highlight the interdisciplinary nature of this areaPearls of Discrete Mathematics presents methods for solving counting problems and other types of problems that involve discrete structures Through intriguing examples problems theorems and proofs the book illustrates the relation   *Essentials of Discrete Mathematics* David James Hunter,2009 Essentials of Discrete Mathematics is the ideal text for a one term discrete mathematics course to serve computer science majors as well as students from a wide range of other disciplines It presents a unified and complete picture of discrete mathematics that instructors can move through in a single semester BOOK JACKET

   Problems and Exercises in Discrete Mathematics G.P. Gavrilov,A.A. Sapozhenko,2013-03-09 Many years of practical experience in teaching discrete mathematics form the basis of this text book Part I contains problems on such topics as Boolean algebra k valued logics graphs and networks elements of coding theory automata theory algorithms theory combinatorics Boolean minimization and logical design The exercises are preceded by ample theoretical background material For further study the reader is referred to the extensive bibliography Part II follows the same structure as Part I and gives helpful hints and solutions Audience This book will be of great value to undergraduate students of discrete mathematics whereas the more difficult exercises which comprise about one third of the material will also appeal to postgraduates and researchers   **A Short Course in Discrete Mathematics** Edward A. Bender,S. Gill Williamson,2005-01-01 What sort of mathematics do I need for computer science In response to this frequently asked question a pair of professors at the University of California at San Diego created this text Its sources are two of the university s most basic courses Discrete Mathematics and Mathematics for Algorithm and System Analysis Intended for use by sophomores in the first of a two quarter sequence the text assumes some familiarity with calculus Topics include Boolean functions and computer arithmetic logic number theory and cryptography sets and functions equivalence and order and induction sequences and series Multiple

choice questions for review appear throughout the text Original 2005 edition Notation Index Subject Index **Discrete Mathematics** Sherwood Washburn,Thomas Marlowe,Charles T. Ryan,2000 Discrete Mathematics by Washburn Marlowe and Ryan is now available for your students This new textbook excels at integrating the topics that make up a discrete mathematics course creating a cohesive presentation for your students Discrete Mathematics combines classic historical material and cutting edge computer science applications in a clear high quality format The exercise sets including basic exercises advanced exercises and computer exercises are designed to allow your students to master what they have learned before moving on to more difficult material With its highly flexible organization and unique grade of difficulty Discrete Mathematics successfully fits either the freshman sophomore course or a more advanced junior senior course and is accessible to both computer scientists and mathematicians **Discrete Mathematics for Computer Science** Jon Pierre Fortney,2020-12-23 Discrete Mathematics for Computer Science An Example Based Introduction is intended for a first or second year discrete mathematics course for computer science majors It covers many important mathematical topics essential for future computer science majors such as algorithms number representations logic set theory Boolean algebra functions combinatorics algorithmic complexity graphs and trees Features Designed to be especially useful for courses at the community college level Ideal as a first or second year textbook for computer science majors or as a general introduction to discrete mathematics Written to be accessible to those with a limited mathematics background and to aid with the transition to abstract thinking Filled with over 200 worked examples boxed for easy reference and over 200 practice problems with answers Contains approximately 40 simple algorithms to aid students in becoming proficient with algorithm control structures and pseudocode Includes an appendix on basic circuit design which provides a real world motivational example for computer science majors by drawing on multiple topics covered in the book to design a circuit that adds two eight digit binary numbers Jon Pierre Fortney graduated from the University of Pennsylvania in 1996 with a BA in Mathematics and Actuarial Science and a BSE in Chemical Engineering Prior to returning to graduate school he worked as both an environmental engineer and as an actuarial analyst He graduated from Arizona State University in 2008 with a PhD in Mathematics specializing in Geometric Mechanics Since 2012 he has worked at Zayed University in Dubai This is his second mathematics textbook

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