Boolean Algebra In Discrete Mathematics

Discrete MathematicsA First Course in Discrete MathematicsDiscrete MathematicsA Course In Discrete Mathematical StructuresA First Course in Discrete MathematicsDiscrete MathematicsA Logical Approach to Discrete MathDiscrete MathematicsEssentials of Discrete MathematicsDiscrete MathematicsDiscrete MathematicsDiscrete Mathematics Through Applications2000 Solved Problems in Discrete MathematicsDiscrete MathematicsAn Introduction to Discrete MathematicsSchaum's Outline of Discrete Mathematics, 3rd Ed.The Essence of Discrete MathematicsDiscrete Mathematics and Its ApplicationsDiscrete MathematicsDiscrete Mathematics Martin Aigner John C. Molluzzo Babu Ram Lekh Rej Vermani Ian Anderson Gary Chartrand David Gries Mike Piff David J. Hunter Oscar Levin Amanda Chetwynd Nancy Crisler Seymour Lipschutz Ali Grami Steven Roman Seymour Lipschutz Neville Dean Kenneth H. Rosen John G. Kemeny Jean Gallier

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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 günter m ziegler has been an international success with translations into 12 languages

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 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 essential topics in discrete structures are adequately emphasized the book will enable the students to develop the requisite computational skills needed in software engineering

this book provides a broad introduction to some of the most fascinating and beautiful areas of discrete mathematical structures it starts with a chapter on sets and goes on to provide examples in logic applications of the principle of inclusion and exclusion and finally the pigeonhole principal computational techniques including the principle of mathematical introduction are provided as well as a study on elementary properties of graphs trees and lattices some basic results on groups rings fields and vector spaces are also given the treatment of which is intentionally simple since such results are fundamental as a foundation for students of discrete mathematics in addition some results on solutions of systems of linear equations are discussed a

discrete mathematics has now established its place in most undergraduate mathematics courses this textbook provides a concise readable and accessible introduction to a number of topics in this area such as enumeration graph theory latin squares and designs it is aimed at second year undergraduate mathematics students and provides them with many of the basic techniques ideas and results it contains many worked examples and each chapter ends with a large number of exercises with hints or solutions provided for most of them as well as including standard topics such as binomial coefficients recurrence the inclusion exclusion principle trees hamiltonian and eulerian graphs latin squares and finite projective planes the text also includes material on the ménage problem magic squares catalan and stirling numbers and tournament schedules

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

here the authors strive to change the way logic and discrete math are taught in computer science and mathematics while many books treat logic simply as another topic of study this one is unique in its willingness to go one step further the book traets logic as a basic tool which may be applied in essentially every other area

discrete mathematics is the basic language which every student of computing should take pride in mastering and this book should prove an essential tool in this aim

written for the one term course the third edition of essentials of discrete mathematics is designed to serve computer science majors as well as students from a wide range of disciplines the material is organized around five types of thinking logical relational recursive quantitative and analytical this presentation results in a coherent outline that steadily builds upon mathematical sophistication graphs are introduced early and referred to throughout the text providing a richer context for examples and applications tudents will encounter algorithms near the end of the text after they have acquired the skills and experience needed to analyze them the final chapter contains in depth case studies from a variety of fields including biology sociology linguistics economics and music

discrete mathematics an open introduction fourth edition aims to provide an introduction to select topics in discrete mathematics at a level appropriate for first or second year undergraduate math and computer science majors especially those who intend to teach middle and high school mathematics the book began as a set of notes for the discrete mathematics course at the university of northern colorado this course serves both as a survey of the topics in discrete math and as the bridge course for math majors features uses problem oriented and inquiry based methods to teach the concepts suitable for

undergraduates in mathematics and computer science new to the 4th edition large scale restructuring contains more than 750 exercises and examples new sections on probability relations and discrete structures and their proofs

as an introduction to discrete mathematics this text provides a straightforward overview of the range of mathematical techniques available to students assuming very little prior knowledge and with the minimum of technical complication it gives an account of the foundations of modern mathematics logic sets relations and functions it then develops these ideas in the context of three particular topics combinatorics the mathematics of counting probability the mathematics of chance and graph theory the mathematics of connections in networks worked examples and graded exercises are used throughout to develop ideas and concepts the format of this book is such that it can be easily used as the basis for a complete modular course in discrete mathematics

written specifically for the high school discrete math course discrete mathematics through applications lets the recently revised nctm standards be its guide the book focuses on the connections among mathematical topics and real life events and situations emphasizing problem solving mathematical reasoning and communication

master discrete mathematics with schaum s the high performance solved problem guide it will help you cut study time hone problem solving skills and achieve your personal best on exams students love schaum s solved problem guides because they produce results each year thousands of students improve their test scores and final grades with these indispensable guides get the edge on your classmates use schaum s if you don t have a lot of time but want to excel in class use this book to brush up before tests study quickly and more effectively learn the best strategies for solving tough problems in step by step detail review what you ve learned in class by solving thousands of relevant problems that test your skill compatible with any classroom text schaum s solved problem guides let you practice at your own pace and remind you of all the important problem solving techniques you need to remember fast and schaum s are so complete they re perfect for preparing for graduate or professional exams inside you will find 2 000 solved problems with complete solutions the largest selection of solved problems yet published on this subject an index to help you quickly locate the types of problems you want to solve problems like those you ll find on your exams techniques for choosing the correct approach to problems guidance toward the quickest most efficient solutions if you want top grades and thorough understanding of discrete mathematics this powerful study tool is the best tutor you can have

discrete mathematics essentials and applications offers a comprehensive survey of the area particularly concentrating on the basic principles and applications of discrete mathematics this up to date text provides proofs of significance keeping the focus on numerous relevant

examples and many pertinent applications written in a simple and clear tone the title features insightful descriptions and intuitive explanations of all complex concepts and ensures a thorough understanding of the subject matter offers easy to understand coverage of the subject matter with a class tested pedagogical approach covers all topics in discrete math in a comprehensive yet not overwhelming way includes numerous meaningful examples on all topics to bring insight and relevant applications for all major topics

intended for a one term course in discrete mathematics to prepare freshmen and sophomores for further work in computer science as well as mathematics sets proof techniques logic combinatorics and graph theory are covered in concise form all topics are motivated by concrete examples often emphasizing the interplay between computer science and mathematics examples also illustrate all definitions applications and references cover a wide variety of realistic situations coverage of mathematical induction includes the stroung form of induction and new sections have been added on nonhomogeneous recurrence relations and the essentials of probability

this is a topic that becomes increasingly important every year as the digital age extends and grows more encompassing in every facet of life discrete mathematics the study of finite systems has become more important as the computer age has advanced as computer arithmetic logic and combinatorics have become standard topics in the discipline for mathematics majors it is one of the core required courses this new edition will bring the outline into synch with rosen mcgraw hill s bestselling textbook in the field as well as up to speed in the current curriculum new material will include expanded coverage of logic the rules of inference and basic types of proofs in mathematical reasoning this will give students a better understanding of proofs of facts about sets and functions there will be increased emphasis on discrete probability and aspects of probability theory and greater accessibility to counting techniques this new edition features counting chapter will have new material on generalized combinations new chapter on computer arithmetic with binary and hexagon addition and multiplication new cryptology chapter including substitution and rsa method this outline is the perfect supplement to any course in discrete math and can also serve as a stand alone textbook

presents a gentle introduction to all the basics of discrete mathematics introduces sets and logic providing clear instructions on calculating values for mathematical expressions for small finite sets for simplicity uses sets of numbers extensively but also covers non numerical examples introduces relations and functions and then discusses how they can be modeled using sets shows how modeling with sets and logic can be applied to practical problems includes a running case study worked examples and self test questions undergraduate courses in discrete mathematics

a precise relevant comprehensive approach to mathematical concepts

a flexible tool as a supplement to a course in discrete mathematics

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

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