

Schaum S Outline Of Discrete Mathematics

Discrete Mathematics ADVANCED DISCRETE MATHEMATICS Discrete Mathematics Foundations of Discrete Mathematics Foundations of Discrete Mathematics Essentials of Discrete Mathematics Foundations of Discrete Mathematics Elements of Discrete Mathematics Problems and Exercises in Discrete Mathematics Discrete Mathematics with Applications The Essence of Discrete Mathematics Journey into Discrete Mathematics Fundamentals of Discrete Math for Computer Science Essentials of Discrete Mathematics Foundations of Discrete Mathematics Discrete Mathematical Structures Discrete Mathematics Schaum's Outline of Discrete Mathematics, 3rd Ed. Discrete Mathematics and Its Applications A Treatise On Discrete Mathematical Structures Gary Chartrand UDAY SINGH RAJPUT Martin Aigner Mr. Rohit Manglik Peter Fletcher David James Hunter Albert D. Polimeni Ronald E. Prather G.P. Gavrillov Thomas Koshy Neville Dean Owen D. Byer Tom Jenkyns David J. Hunter K. D. Joshi G Shanker Rao Rowan Garnier Seymour Lipschutz Kenneth H. Rosen Jayant Ganguly Discrete Mathematics ADVANCED DISCRETE MATHEMATICS Discrete Mathematics Foundations of Discrete Mathematics Foundations of Discrete Mathematics Essentials of Discrete Mathematics Foundations of Discrete Mathematics Elements of Discrete Mathematics Problems and Exercises in Discrete Mathematics Discrete Mathematics with Applications The Essence of Discrete Mathematics Journey into Discrete Mathematics Fundamentals of Discrete Math for Computer Science Essentials of

Discrete Mathematics Foundations of Discrete Mathematics Discrete Mathematical Structures Discrete Mathematics Schaum's Outline of Discrete Mathematics, 3rd Ed. Discrete Mathematics and Its Applications A Treatise On Discrete Mathematical Structures *Gary Chartrand UDAY SINGH RAJPUT Martin Aigner Mr. Rohit Manglik Peter Fletcher David James Hunter Albert D. Polimeni Ronald E. Prather G.P. Gavrilo Thomas Koshy Neville Dean Owen D. Byer Tom Jenkyns David J. Hunter K. D. Joshi G Shanker Rao Rowan Garnier Seymour Lipschutz Kenneth H. Rosen Jayant Ganguly*

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

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

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

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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 students 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

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

this approachable text studies discrete objects and the relationships that bind them it helps students understand and apply the power of discrete math to digital computer systems and other modern applications it provides excellent preparation for courses in linear algebra number theory and modern abstract algebra and for computer science courses in data structures algorithms programming languages compilers databases and computation covers all recommended topics in a self contained comprehensive and understandable format for students and new professionals emphasizes problem solving techniques pattern recognition conjecturing induction applications of varying nature proof techniques algorithm development and correctness and numeric computations weaves numerous applications into the text helps students learn by doing with a wealth of examples and exercises 560 examples worked out in detail more than 3 700 exercises more than 150 computer assignments more than 600 writing projects includes chapter summaries of important vocabulary formulas and properties plus the chapter review exercises features interesting anecdotes and biographies of 60 mathematicians and computer scientists instructor s manual available for adopters student solutions manual available separately for purchase isbn 0124211828

presenting a gentle introduction to all the basics of discrete mathematics this book introduces sets propositional logic predicate

logic and mathematical models it discusses relations including homogeneous relations

journey into discrete mathematics is designed for use in a first course in mathematical abstraction for early career undergraduate mathematics majors the important ideas of discrete mathematics are included logic sets proof writing relations counting number theory and graph theory in a manner that promotes development of a mathematical mindset and prepares students for further study while the treatment is designed to prepare the student reader for the mathematics major the book remains attractive and appealing to students of computer science and other problem solving disciplines the exposition is exquisite and engaging and features detailed descriptions of the thought processes that one might follow to attack the problems of mathematics the problems are appealing and vary widely in depth and difficulty careful design of the book helps the student reader learn to think like a mathematician through the exposition and the problems provided several of the core topics including counting number theory and graph theory are visited twice once in an introductory manner and then again in a later chapter with more advanced concepts and with a deeper perspective owen d byer and deirdre l smeltzer are both professors of mathematics at eastern mennonite university kenneth l wantz is professor of mathematics at regent university collectively the authors have specialized expertise and research publications ranging widely over discrete mathematics and have over fifty semesters of combined experience in teaching this subject

this textbook provides an engaging and motivational introduction to traditional topics in discrete mathematics in a manner specifically designed to appeal to computer science students the text empowers students to think critically to be effective problem

solvers to integrate theory and practice and to recognize the importance of abstraction clearly structured and interactive in nature the book presents detailed walkthroughs of several algorithms stimulating a conversation with the reader through informal commentary and provocative questions features no university level background in mathematics required ideally structured for classroom use and self study with modular chapters following acm curriculum recommendations describes mathematical processes in an algorithmic manner contains examples and exercises throughout the text and highlights the most important concepts in each section selects examples that demonstrate a practical use for the concept in question

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

this book is meant to be more than just a text in discrete mathematics it is a forerunner of another book applied discrete structures by the same author the ultimate goal of the two books are to make a strong case for the inclusion of discrete mathematics in the undergraduate curricula of mathematics by creating a sequence of courses in discrete mathematics parallel to the traditional sequence of calculus based courses the present book covers the foundations of discrete mathematics in seven chapters it lays a heavy emphasis on motivation and attempts clarity without sacrificing rigour a list of typical problems is given in the first chapter

these problems are used throughout the book to motivate various concepts a review of logic is included to gear the reader into a proper frame of mind the basic counting techniques are covered in chapters 2 and 7 those in chapter 2 are elementary but they are intentionally covered in a formal manner so as to acquaint the reader with the traditional definition theorem proof pattern of mathematics chapters 3 introduces abstraction and shows how the focal point of todays mathematics is not numbers but sets carrying suitable structures chapter 4 deals with boolean algebras and their applications chapters 5 and 6 deal with more traditional topics in algebra viz groups rings fields vector spaces and matrices the presentation is elementary and presupposes no mathematical maturity on the part of the reader instead comments are inserted liberally to increase his maturity each chapter has four sections each section is followed by exercises of various degrees of difficulty and by notes and guide to literature answers to the exercises are provided at the end of the book

this text can be used by the students of mathematics or computer science as an introduction to the fundamentals of discrete mathematics the book is designed in accordance with the syllabi of be b tech bca mca and m sc computer science prescribed in most of the universities this book offers the following topics mathematical logic sets relations recurrence relations functions combinations boolean algebra logic gates graph theory algebraic structures and finite state machines each chapter is supplemented with a number of worked examples as well as a number of problems to be solved by the students this would help in a better understanding of the subject

in a comprehensive yet easy to follow manner discrete mathematics for new technology follows the progression from the basic

mathematical concepts covered by the gcse in the uk and by high school algebra in the usa to the more sophisticated mathematical concepts examined in the latter stages of the book the book punctuates the rigorous treatment of theory with frequent uses of pertinent examples and exercises enabling readers to achieve a feel for the subject at hand the exercise hints and solutions are provided at the end of the book topics covered include logic and the nature of mathematical proof set theory relations and functions matrices and systems of linear equations algebraic structures boolean algebras and a thorough treatise on graph theory although aimed primarily at computer science students the structured development of the mathematics enables this text to be used by undergraduate mathematicians scientists and others who require an understanding of discrete mathematics

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

the goal of this text 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 this text is designed 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

a treatise on discrete mathematical structures has been designed to build a foundation of the type of mathematical thinking that is required to be built at the basic level the approach chosen is comprehensive while maintaining an easy to follow progression from the basic mathematical concepts covered by high school algebra to the more sophisticated concepts the rigorous treatment of theory is augmented by numerous examples sp solved problem this is then reinforced by exercises ep exercise problem at the end of each chapter further for the exercise problems whose serial number is in bold face letter a hint or solution is provided in the

corresponding answer section although this treatise aims at the learners of computer science it can very well be used by anyone who requires an understanding of discrete mathematical concepts features the presentation style of each chapter resembles that as done in a classroom the book is intended for anybody interested in the subject prerequisite requirement is mostly high school mathematics each chapter begins with an outline of the topics covered in the book contains a large number of examples with steps over simplified each chapter ends with a chapter summary under the heading recap a large number of practice problems are included with sufficient hints many new results from recently published papers are incorporated a number of exhaustive appendices are included for those interested a problem bank is included containing problems from mathematical tripods examination the book is user friendly and difficult situations are illustrated with diagrams some interesting non mathematical but related topics are discussed in brief contents set theory relations functions mathematical induction recursive definitions probability and counting elementary concepts fundamentals of logic groups coding theory an introduction elementary number theory rings graph theory basic formulas matrices and determinants and some results series and their summing techniques an introduction stable graphs a note problem bank list of symbols

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