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a clear and self contained introduction to discrete mathematics for undergraduates and early graduates 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

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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 is a compulsory subject for undergraduate computer scientists this new edition includes new chapters on statements and proof logical framework natural numbers and the integers and updated exercises from the previous edition 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 this text is designed for the sophomore junior level introduction to discrete mathematics taken by students preparing for future coursework in areas such as math computer science and engineering rosen has become a bestseller largely due to how effectively it addresses the main portion of the discrete market which is typically characterized as the mid to upper level in rigor the strength of rosen s approach has been the effective balance of theory with relevant applications as well as the overall comprehensive nature of the topic coverage copyright libri gmbh all rights reserved this text is designed for the sophomore junior level introduction to discrete mathematics taken by students preparing for future coursework in areas such as math computer science and engineering rosen has become a bestseller largely due to how effectively it addresses the main portion of the discrete market which is typically characterized as the mid to upper level in rigor the strength of rosen s approach has been the effective balance of theory with relevant applications as well as the overall comprehensive nature of the topic coverage discrete mathematics is the basis of much of computer

science from algorithms and automata theory to combinatorics and graph theory essential discrete mathematics for computer science aims to teach mathematical reasoning as well as concepts and skills by stressing the art of proof it is fully illustrated in color and each chapter includes a concise summary as well as a set of exercises 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 did you know that games and puzzles have given birth to many of today s deepest mathematical subjects now with douglas ensley and winston crawley s introduction to discrete mathematics you can explore mathematical writing abstract structures counting discrete probability and graph theory through games puzzles patterns magic tricks and real world problems you will discover how new mathematical topics can be applied to everyday situations learn how to work with proofs and develop your problem solving skills along the way online applications help improve your mathematical reasoning highly intriguing interactive flash based applications illustrate key mathematical concepts and help you develop your ability to reason mathematically solve problems and work with proofs explore more icons in the text direct you to online activities at wiley.com/college/ensley improve your grade with the student solutions manual a supplementary student solutions manual contains more detailed solutions to selected exercises in the text known for its

accessible precise approach epp s discrete mathematics with applications 5th edition introduces discrete mathematics with clarity and precision coverage emphasizes the major themes of discrete mathematics as well as the reasoning that underlies mathematical thought students learn to think abstractly as they study the ideas of logic and proof while learning about logic circuits and computer addition algorithm analysis recursive thinking computability automata cryptography and combinatorics students discover that ideas of discrete mathematics underlie and are essential to today s science and technology the author s emphasis on reasoning provides a foundation for computer science and upper level mathematics courses important notice media content referenced within the product description or the product text may not be available in the ebook version this best selling book provides an accessible introduction to discrete mathematics through an algorithmic approach that focuses on problem solving techniques this edition has the techniques of proofs woven into the text as a running theme and each chapter has the problem solving corner the text provides complete coverage of logic and proofs algorithms counting methods and the pigeonhole principle recurrence relations graph theory trees network models boolean algebra and combinatorial circuits automata grammars and languages computational geometry for individuals interested in mastering introductory discrete mathematics 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 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 the student solutions manual contains fully worked out solutions to all of the exercises not completely answered in appendix b and is divisible by 3 the study guide also includes alternate explanations for some of the concepts and review questions for each chapter enabling students to gain additional practice and succeed in the course susanna epp's discrete mathematics an introduction to mathematical reasoning provides the same clear introduction to discrete mathematics and mathematical reasoning as her highly acclaimed discrete mathematics with applications but in a compact form that focuses on core topics and omits certain applications usually taught in other courses the book is appropriate for use in a discrete mathematics course that emphasizes essential topics or in a mathematics major or minor course that serves as a transition to abstract mathematical thinking the ideas of discrete mathematics underlie and are essential to the science and technology of the computer age this book offers a synergistic union of the major themes of discrete mathematics together with the reasoning that underlies mathematical thought renowned for her lucid accessible prose epp explains complex abstract concepts with clarity and precision helping students develop the ability to think abstractly as they study each topic in doing so the book provides students with a strong foundation both for computer science and for other upper level mathematics courses important notice media content referenced within the product description or the product text may not be available in the ebook version applied discrete structures is a two semester undergraduate text in discrete mathematics focusing on the structural properties of mathematical objects these include matrices functions graphs trees lattices and algebraic structures the algebraic structures that are discussed are monoids groups rings fields and vector spaces website discretemath.org applied discrete structures has been approved by the american institute of mathematics as part of their open textbook initiative for more information on open textbooks visit aimath.org/textbooks this version was created using

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mathematical language through a wealth of exercises and examples you will learn how mastering discrete mathematics will help you develop important reasoning skills that will continue to be useful throughout your career

discrete mathematics and applications second edition is intended for a one semester course in discrete mathematics such a course is typically taken by mathematics education and computer science majors usually in their sophomore year calculus is not a prerequisite to use this book part one focuses on how to write proofs then moves on to topics in number theory employing set theory in the process part two focuses on computations combinatorics graph theory trees and algorithms emphasizes proofs which will appeal to a subset of this course market links examples to exercise sets offers edition that has been heavily reviewed and developed focuses on graph theory covers trees and algorithms tough test questions missed lectures not enough time fortunately for you there s schaum s outlines more than 40 million students have trusted schaum s to help them succeed in the classroom and on exams schaum s is the key to faster learning and higher grades in every subject each outline presents all the essential course information in an easy to follow topic by topic format you also get hundreds of examples solved problems and practice exercises to test your skills this schaum s outline gives you practice problems with full explanations that reinforce knowledge coverage of the most up to date developments in your course field in depth review of practices and applications fully compatible with your classroom text schaum s highlights all the important facts you need to know use schaum s to shorten your study time and get your best test scores schaum s outlines problem solved this introduction to discrete mathematics is aimed at freshmen and sophomores in mathematics and computer science it begins with a survey of number systems and elementary set theory before moving on to treat data structures counting probability relations and functions graph theory matrices number theory and cryptography the end of each section contains problem sets with selected solutions and good examples occur throughout the text this title is part of the pearson modern classics series pearson modern classics are acclaimed titles at a value price please visit pearsonhighered.com/mathclassics series for a complete list of titles an ever increasing percentage of mathematic applications involve discrete rather than continuous models driving this trend is the integration of the computer into virtually every aspect of modern society intended for a one semester introductory course the strong algorithmic emphasis of discrete mathematics is independent of a specific programming language allowing students to concentrate on foundational problem solving and analytical skills instructors

get the topical breadth and organizational flexibility to tailor the course to the level and interests of their students this fifth edition continues to improve on the features that have made it the market leader the text offers a flexible organization enabling instructors to adapt the book to their particular courses the book is both complete and careful and it continues to maintain its emphasis on algorithms and applications excellent exercise sets allow students to perfect skills as they practice this new edition continues to feature numerous computer science applications making this the ideal text for preparing students for advanced study

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