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A Spiral Workbook for Discrete Mathematics

McGraw-Hill
A Spiral Workbook for Discrete Mathematics covers the standard topics in a sophomore-level course in discrete mathematics: logic, sets, proof techniques, basic number theory, functions,relations, and elementary combinatorics, with an emphasis on

motivation. The text explains and claries the unwritten conventions in mathematics, and guides the students through a detailed discussion on how a proof is revised from its draft to a nal polished form. Hands-on exercises help students understand a concept soon after learning it. The text adopts a spiral approach: many topics are revisited multiple times, sometimes from a dierent perspective or at a higher level of complexity, in order to slowly develop the student's problem-solving and writing skills.

Logic and Discrete Mathematics Waveland Press

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 Discrete Mathematics and Its Applications Cambridge University Press Intended for one- or two-term introductory discrete mathematics courses, this text gives a focused introduction to the primary themes in a

discrete mathematics course and demonstrates the relevance and practicality of discrete mathematics to a variety of real-world applications...from computer science to data networking, to psychology, and others.

Schaum's Outline of Discrete Mathematics, Revised Third Edition McGraw-Hill Science, Engineering & Mathematics Aimed at undergraduate mathematics and computer science students, this book is an excellent introduction to a lot of problems of discrete mathematics. It discusses a number of selected results and methods, mostly from areas of combinatorics and graph theory, and it uses proofs and problem solving to help students understand the solutions to problems. Numerous examples, figures, and exercises are spread throughout the book.

Discrete Mathematics and Applications CRC Press 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.

Precalculus and Discrete Mathematics Pearson
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 Addison-Wesley Longman

Discrete Mathematics and Its ApplicationsMcGraw-Hill
Invitation to Discrete Mathematics Elsevier
A precise, relevant, comprehensive approach to mathematical concepts...
Student Solutions Guide for Discrete Mathematics and Its Applications McGraw-Hill Education
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.
Discrete Mathematics Open SUNY Textbooks
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

Loose Leaf Version for Discrete Mathematics and Its Application Addison Wesley Publishing Company Originally published in 2006, reissued as part of Pearson's modern classic series.

Discrete Mathematics and Its Applications McGraw-Hill 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.

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Discrete Mathematics CRC Press
Judith Gersting's Mathematical Structures for Computer Science has long been acclaimed for its clear presentation of essential concepts and its exceptional range of applications relevant to computer science majors. Now with this new edition, it is the first discrete mathematics textbook revised to meet the proposed new ACM/IEEE standards for the course.

Discrete Mathematics and Its Applications Springer Science & Business Media
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 Springer Science & Business Media
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.

Discrete Mathematics: Introduction to Mathematical

Reasoning Brooks Cole
Discrete Mathematics and
Applications, Second Edition is
intended for a one-semester
course in discrete mathematics.
Such a course is typically taken
by mathematics, 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
*Discrete Mathematics and
Computing* Pearson College
Division
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.
*Discrete Mathematics with
Applications* CRC Press
This book has two primary
objectives: It teaches students
fundamental concepts in discrete
mathematics (from counting to
basic cryptography to graph

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theory), and it teaches students proof-writing skills. With a wealth of learning aids and a clear presentation, the book teaches students not only how to write proofs, but how to think clearly and present cases logically beyond this course. Overall, this book is an introduction to mathematics. In particular, it is an introduction to discrete mathematics. All of the material is directly applicable to computer science and engineering, but it is presented from a mathematician's perspective. While algorithms and analysis appear throughout, the emphasis is on mathematics. Students will learn that discrete mathematics is very useful, especially those whose interests lie in computer science and engineering, as well as those who plan to study probability, statistics, operations research, and other areas of applied mathematics.

Schaum's Outline of Discrete Mathematics, 3rd Ed McGraw-Hill Master the fundamentals of discrete mathematics with

DISCRETE MATHEMATICS FOR COMPUTER SCIENCE with Student Solutions Manual CD-ROM! An increasing number of computer scientists from diverse areas are using discrete mathematical structures to explain concepts and problems and this mathematics text shows you how to express precise ideas in clear 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. Mathematics with Applications Oxford University Press Discrete Mathematics and its Applications, Seventh Edition, is intended for one-

or two-term introductory discrete mathematics courses taken by students from a wide variety of majors, including computer science, mathematics, and engineering. This renowned best-selling text, which has been used at over 500 institutions around the world, gives a focused introduction to the primary themes in a discrete mathematics course and demonstrates the relevance and practicality of discrete mathematics to a wide a wide variety of real-world applications...from computer science to data networking, to psychology, to chemistry, to engineering, to linguistics, to biology, to business, and to many other important fields.

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