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Discrete Mathematics with Applications
Pearson College Division
Discrete Mathematical Structures, Sixth Edition, offers a clear and concise presentation of the fundamental concepts of discrete mathematics. Ideal for a one-semester introductory course, this text contains more genuine computer science applications than any other text in the field. This book is written at an appropriate level for a wide variety of majors and non-majors, and assumes a college algebra course as a prerequisite.

Student Solutions Guide for Discrete Mathematics and Its Applications Prentice Hall
Discrete Mathematical Structures
Mathematical Structures for Computer Science
Laxmi Publications, Ltd.

Combining a careful selection of topics with coverage of their genuine applications in computer science, this book, more than any other in this field, is clearly and concisely written, presenting the basic ideas of discrete mathematical structures in a manner that is understandable. Limiting its scope and depth of topics to those that readers can actually utilize, this book covers first the fundamentals, then follows with logic, counting, relations and digraphs, functions, order relations and structures, trees, graph theory, semigroups and groups, languages and finite-state machines, and groups and coding. With its comprehensive appendices and index, this book can be an excellent reference work for mathematicians and those in the field of computer science.

Discrete Mathematics for Computer Science

PHI Learning Pvt. Ltd.

This book contains fundamental concepts on discrete mathematical structures in an easy to understand style so that the reader can grasp the contents and explanation easily. The concepts of discrete mathematical structures have application to computer science, engineering and information technology including in coding techniques, switching circuits, pointers and linked allocation, error corrections, as well as in data networking, Chemistry, Biology and many other scientific areas. The book is for undergraduate and graduate levels learners and educators associated with various courses and programmes in Mathematics, Computer Science, Engineering and Information Technology. The book should serve as a text and reference guide to many undergraduate and graduate programmes offered by many institutions including colleges and universities. Readers will find solved examples and end of chapter exercises to enhance reader comprehension. Features Offers comprehensive coverage of basic ideas of Logic, Mathematical Induction, Graph Theory, Algebraic Structures and Lattices and Boolean Algebra Provides end of chapter solved examples and practice problems Delivers materials on valid arguments and rules of inference with illustrations Focuses on algebraic structures to enable the reader to work with discrete structures

Practical Design Studies, Third Edition
Waveland Press

Rosen's Discrete Mathematics and its Applications presents a precise, relevant, comprehensive approach to mathematical concepts. This world-renowned best-selling text was written to accommodate the needs across a variety of majors and departments, including mathematics, computer science, and engineering. As the market leader, the book is highly flexible,

comprehensive and a proven pedagogical teaching tool for instructors.

Elementary Linear Algebra
Macmillan Higher Education

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)
COC™ Exam Study Guide AAPC
Whatever your hydraulic applications, Practical Hydraulic Systems: Operation & Troubleshooting For Engineers & Technicians will help you to increase your knowledge of the fundamentals, improve your maintenance programs and become an excellent troubleshooter of problems in this area. Cutaways of all major components are included in the book to visually demonstrate the components' construction and operation. Developing an understanding of how it works leads to an understanding of how and why it fails. Multimedia views of the equipment are shown, to give as realistic a view of hydraulic systems as possible. The book is highly practical, comprehensive and interactive. It discusses Hydraulic Systems construction, design applications, operations, maintenance, and management issues and provides you with the most up-to-date information and Best Practice in dealing with the subject. * A focus on maintenance and troubleshooting makes this book essential reading for practising engineers. * Written to cover the requirements of mechanical / industrial and civil engineering. * Cutaway diagrams demonstrate the construction and operation of key equipment.

Practical Hydraulic Systems: Operation and Troubleshooting for Engineers and Technicians Prentice Hall

Elementary Linear Programming with Applications presents a survey of the basic ideas in linear programming and related areas. It also provides students with some of the tools used in solving difficult problems which will prove useful in their professional career. The text is comprised of six chapters. The Prologue gives a brief survey of operations research and discusses the different steps in solving an operations research problem.

Chapter 0 gives a quick review of the necessary linear algebra.

Chapter 1 deals with the basic necessary geometric ideas in R^n .

Chapter 2 introduces linear programming with examples of the problems to be considered, and presents the simplex method as an algorithm for solving linear programming problems. Chapter 3 covers further topics in linear programming, including duality theory and sensitivity analysis.

Chapter 4 presents an introduction to integer programming. Chapter 5 covers a few of the more important topics in network flows. Students of business, engineering, computer science, and mathematics will find the book very useful.

An Open Introduction PHI Learning Pvt. Ltd.

Originally published in 2009, reissued as part of Pearson's modern classic series. Theory and Applications Brooks/Cole Publishing Company

Combinatorial enumeration is a readily accessible subject full of easily stated, but sometimes tantalizingly difficult problems. This book leads the reader in a leisurely way from basic notions of combinatorial enumeration to a variety of topics, ranging from algebra to statistical physics. The book is organized in three parts: Basics, Methods, and Topics. The aim is to introduce readers to a fascinating field, and to offer a sophisticated source of information for professional mathematicians desiring to learn more. There are 666 exercises, and every chapter ends with a highlight section, discussing in detail a particularly beautiful or famous result.

Discrete Mathematical Structures
Pearson Higher Ed

Bond and Keane explicate the elements of logical, mathematical argument to elucidate the meaning and importance of mathematical rigor. With definitions of concepts at their disposal, students learn the rules of logical inference, read and understand proofs of theorems, and write their own proofs all while becoming familiar with the grammar of mathematics and its style. In addition, they will develop an appreciation of the different methods of proof (contradiction, induction), the value of a proof, and the beauty of an elegant argument. The authors emphasize that mathematics is an ongoing, vibrant discipline with its long, fascinating history continually intersecting with territory still uncharted and questions still in need of answers. The authors have an extensive background in teaching mathematics and shines through in this balanced, explicit, and engaging text, designed as a primer for higher-level mathematics courses. They elegantly demonstrate process and application and recognize the byproducts of both the achievements and the missteps of past thinkers. Chapters 1-5 introduce the fundamentals of abstract mathematics and chapters 6-8 apply the ideas and techniques, placing the earlier material in a real context. Readers' interest is continually piqued by the use of clear explanations, practical examples, discussion and discovery exercises, and historical comments.

A Succinct Foundation CRC Press

For one/two-term, freshman/sophomore-level courses in Discrete Mathematics. More than any other book in the field, this text ties together discrete topics with a theme. Written at an appropriate level of rigor with a strong pedagogical focus it limits depth of coverage and areas covered to topics of genuine use in computer science. An emphasis on both basic theory and applications provides students with a firm foundation for more advanced courses.

Discrete Mathematical Structures for Computer Science New Age International

Because of its inherent simplicity, graph theory has a wide range of applications in engineering, and in physical sciences. It has of course uses in social sciences, in linguistics and in numerous other

areas. In fact, a graph can be used to represent almost any physical situation involving discrete objects and the relationship among them. Now with the solutions to engineering and other problems becoming so complex leading to larger graphs, it is virtually difficult to analyze without the use of computers. This book is recommended in IIT Kharagpur, West Bengal for B.Tech Computer Science, NIT Arunachal Pradesh, NIT Nagaland, NIT Agartala, NIT Silchar, Gauhati University, Dibrugarh University, North Eastern Regional Institute of Management, Assam Engineering College, West Bengal University of Technology (WBUT) for B.Tech, M.Tech Computer Science, University of Burdwan, West Bengal for B.Tech. Computer Science, Jadavpur University, West Bengal for M.Sc. Computer Science, Kalyani College of Engineering, West Bengal for B.Tech. Computer Science. Key Features: This book provides a rigorous yet informal treatment of graph theory with an emphasis on computational aspects of graph theory and graph-theoretic algorithms. Numerous applications to actual engineering problems are incorporated with software design and optimization topics.

Graph Theory with Applications to Engineering and Computer Science
Prentice Hall

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: Introduction to Mathematical Reasoning 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.

Solution Manual to Engineering Mathematics Brooks Cole

NOTE: You are purchasing a standalone product; MyProgrammingLab does not come packaged with this content. If you would like to purchase both the physical text and MyProgrammingLab search for ISBN-10: 0133050556/ISBN-13: 9780133050554. That package includes ISBN-10: 0132747189/ISBN-13: 9780132747189 and ISBN-10: 0133019861/ISBN-13: 9780133019865 . MyProgrammingLab should only be purchased when required by an instructor. Introduction to Programming Using Python is intended for use in the introduction to programming course. Daniel Liang is known for his "fundamentals-first" approach to teaching programming concepts and techniques. "Fundamentals-first" means that students learn fundamental programming concepts like selection statements, loops, and functions, before moving into defining classes. Students learn basic logic and programming concepts before moving into object-oriented programming, and GUI programming. Another aspect of Introduction to Programming Using Python is that in addition to the typical programming examples that feature games and some math, Liang gives an example or two early in the chapter that uses a simple graphic to engage the students. Rather than asking them to average 10 numbers together, they learn the concepts in

the context of a fun example that generates something visually interesting. Using the graphics examples is optional in this textbook. Turtle graphics can be used in Chapters 1-5 to introduce the fundamentals of programming and Tkinter can be used for developing comprehensive graphical user interfaces and for learning object-oriented programming. Prentice Hall This is a sequel to the author's earlier books -- Engineering Mathematics: Vols. I and II -- both well received by the students and the academics. As this book deals with advanced topics in engineering mathematics, which undergraduate students in engineering and postgraduate students in mathematics and allied disciplines have to study as part of their course requirements, the title of Advanced Engineering Mathematics has been considered more suitable. This well-organised and accessible text discusses in detail the advanced mathematical tools and techniques required for engineering problems. The book begins with Fourier series and goes on to give an indepth analysis of Fourier transform, Mellin transforms and Z-transforms. It then examines the partial differential equations with an emphasis on the method of separation of variables applied to the solution of initial boundary value problems involving the heat, wave and Laplace equations. Discrete mathematics and its applications are

covered in a separate chapter as the subject has wide applications in computer science. In addition, the book presents some of the classical problems of the calculus of variations, including the brachistochrone problem. The text concludes with a discussion on tensor analysis which has important applications in the study of continuum mechanics, theory of relativity, and elasticity. Intended primarily as a text for undergraduate students of engineering, postgraduate students of mathematics (M.Sc.), and master of computer applications (MCA), the book would be of great benefit also to practising engineers. Key Features The topics given are application-oriented, and are selected keeping in view their use in various engineering disciplines. Exercises are provided at the end of each section to test the student's comprehension. A large number of illustrative examples are given to help students understand the concepts better.

Elementary Linear Algebra with Applications Discrete Mathematical Structures For one/two-term, freshman/sophomore-level courses in Discrete Mathematics. More than any other book in the field, this text ties together discrete topics with a theme. Written at an appropriate level of rigor with a strong pedagogical focus it limits depth of coverage and areas covered to topics of genuine use in computer science. An emphasis on both basic

theory and applications provides students with a firm foundation for more advanced courses. Discrete Mathematical Structures for Computer Science

The third edition of this popular book now contains references to both Eurocodes and British Standards, as well as new and revised examples, and sections on sustainability, composite columns and local buckling. Initial chapters cover the essentials of structural engineering and structural steel design, whilst the remainder of the book is dedicated to a detailed examination of the analysis and design of selected types of structures, presenting complex designs in an understandable and user-friendly way. These structures include a range of single and multi-storey buildings, floor systems and wide-span buildings. Emphasis is placed on practical design with a view to helping undergraduate students and newly qualified engineers bridge the gap between academic study and work in the design office. Experienced engineers who need a refresher course on up-to-date methods of design and analysis will also find the book useful.

Fundamental Approach To Discrete Mathematics Springer Science & Business Media

This is the only discrete math text that has a thread holding the various topics together. One of the shortest books on the market. New to this edition: stronger coverage of logic, graphs, and trees. Also includes special student projects.

Introduction to Programming Using
Python Cengage Learning

For introductory sophomore-level courses in Linear Algebra or Matrix Theory. This text presents the basic ideas of linear algebra in a manner that offers students a fine balance between abstraction/theory and computational skills. The emphasis is on not just teaching how to read a proof but also on how to write a proof.