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Discrete Mathematical Structures Dr Dsc Prism Publications

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RICHARD BECKER

Graph Theory with Applications Prentice Hall
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.

Fundamentals Of Data Structures In C(Pul)

CRC Press
Provides computer science students with a foundation in discrete mathematics using relevant computer science applications.
Discrete Mathematics for Computer Scientists John Wiley & Sons
Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.
Handbook of Discrete and Combinatorial Mathematics PHI Learning Pvt. Ltd.
A precise, relevant, comprehensive approach to mathematical concepts...
Software Engineering McGraw-Hill Companies
This book provides a concise and inexpensive introduction for an undergraduate course in glass science and technology. The level of the book has deliberately been maintained at the introductory level to avoid confusion of the student by inclusion of more advanced material, and is unique in that its text is limited to the amount suitable for a one term course for students in materials science, ceramics or inorganic chemistry. The contents cover the fundamental topics of importance in glass science and technology, including glass formation, crystallization, phase separation and structure of glasses. Additional chapters discuss the most important properties of glasses, including discussion of physical, optical, electrical, chemical and mechanical properties. A final chapter provides an introduction to a number of methods used to form technical glasses, including glass sheet, bottles, insulation fibre, optical fibres and other common commercial products. In addition, the book contains discussion of the effects of phase separation and crystallization on the properties of glasses, which is neglected in other texts. Although intended primarily as a textbook, Introduction to Glass Science and Technology will also be invaluable to the engineer or scientist who desires more knowledge regarding the formation, properties and production of glass.
Lectures on Applied Mathematics Discrete Mathematical Structures for Computer Science
This text provides a balanced survey of major sub-fields within discrete mathematics. It demonstrates the utility of discrete mathematics in the solutions of real-world problems in diverse areas such as zoology, linguistics and business. Over 200 new problems have been added to this third edition.

Digital Terrain Modeling

Addison Wesley Publishing Company
Designed as one of the first true textbooks on how to use the UNIX operating system and suitable for a wide variety of UNIX-based courses, UNIX and Shell Programming goes beyond providing a reference of commands to offer a guide to basic commands and shell programming. Forouzan/Gilberg begin by introducing students to basic commands and tools of the powerful UNIX operating system. The authors then present simple scriptwriting concepts, and cover all material required for understanding shells (e.g., Regular Expressions, grep, sed, and awk) before introducing material on the Korn, C, and Bourne shells. Throughout, in-text learning aids encourage active learning and rich visuals support concept presentation. For example, sessions use color so students can easily distinguish user input from computer output. In addition, illustrative figures help student visualize what the command is doing. Each chapter concludes with problems, including lab sessions where students work on the computer and complete sessions step-by-step. This approach has proven to be successful when teaching this material in the classroom.
Combinatorics and Graph Theory Springer Science & Business Media
The dissipative soliton concept is a fundamental extension of the concept of solitons in conservative and integrable systems. It includes ideas from three major sources, namely standard soliton theory developed since the 1960s; nonlinear dynamics theory; and Prigogine's ideas of systems far from equilibrium. These three sources also correspond to the three component parts of this novel paradigm. This book explains the above principles in detail and gives the reader various examples.
Discrete and Combinatorial Mathematics Springer Science & Business Media
This well-received book, now in its second edition, is intended for the undergraduate engineering students of all branches. The book is designed in such a manner that even an average student can comprehend the subject with ease. The text begins with the Fourier series expansions and harmonic analysis. The formation and solution of partial differential equations and their applications in elastic string, one- and two-dimensional heat flow are explained in detail. Also, the book deals with Fourier transforms, including sine and cosine transforms and their properties. The text concludes with Z transform and its application in solving difference equations. This new edition includes a large number of carefully selected two-mark questions with their solutions as well as a Question Bank containing important questions from all the chapters. KEY FEATURES 1. Concise and clear presentation of basic concepts 2. Step-by-step derivation of results 3. Variety of problems arranged in a graded manner 4. Practice exercises at the end of each section 5. Answers to unsolved problems

Current Research in Britain

New Age International
About the Book: This text can be used by the students of mathematics and computer science as an introduction to the fundamentals of discrete mathematics. The book is designed in accordance with the syllabi of B.E., B. Tech., MCA and M.Sc. (Computer Science) prescribed in most of the universities of India. Each chapter is supplemented with a number of worked example as well as a number of problems to be solved by the students. This would help in a better understanding of the subject. Contents: Mathematical Logic Set Theory Relations Functions and

Recurrence Relations Boolean Algebra Logic Gates Elementary Combinatorics Graph Theory Algebraic Structures Finite State Machines

Mathematical Foundation of Computer Science Cambridge University Press

When the DFG (Deutsche Forschungsgemeinschaft) launched its collabora tive research centre or SFB (Sonderforschungsbereich) 438 "Mathematical Modelling, Simulation, and Verification in Material-Oriented Processes and Intelligent Systems" in July 1997 at the Technische Vniversitat Munchen and at the Vniversitat Augsburg, southern Bavaria got its second nucleus of the still young discipline scientific computing. Whereas the first and older one, FORTWIHR, the Bavarian Consortium for High Performance Scientific Com puting, had put its main emphasis on the supercomputing aspect, this new initiative was now expected to focus on the mathematical part. Consequently, throughout all of the five main research topics (A) adaptive materials and thin layers, (B) adaptive materials in medicine, (C) robotics, aeronautics, and automobile technology, (D) microstructured devices and systems, and (E) transport processes in flows, mathematical aspects play a predominant role. The formation of the SFB 438 and its scientific program are inextricably linked with the name of Karl-Heinz Hoffmann. As full professor for applied mathematics in Augsburg (1981-1991) and in Munchen (since 1992) and as dean of the faculty of mathematics at the TV Munchen, he was the driv ing force of this fascinating, but not always easy-to-realize idea of bringing together scientists from mathematics, physics, engineering, informatics, and medicine for joint efforts in modern applied mathematics. However, scarcely work had begun when the successful captain was called to take command on a bigger boat.

Discrete Mathematics John Wiley & Sons

Software presented in the book contains a number of useful and effective receptions of the procedural and functional programming in Mathematica that extend the system software and allow sometimes much more efficiently and easily to program the software for various purposes. Among them there are means that are of interest from the point of view of including of their or their analogs in Mathematica, at the same time they use approaches, rather useful in programming of various applications. In addition, it must be kept in mind that the classification of the presented tools by their appointment in a certain measure has a rather conditional character because these tools can be crossed substantially among themselves by the functionality. The freeware package MathToolBox containing the above means is attached to the present book. The MathToolBox not only contains a number of useful procedures and functions, but can serve as a rather useful collection of programming examples using both standard and non-standard techniques of functional-procedural programming. The book is oriented on a wide enough circle of the users from computer mathematics systems, researchers, teachers and students of universities for courses of computer science, physics, mathematics, and a lot of other natural disciplines. The book will be of interest also to the specialists of industry and technology which use the computer mathematics systems in own professional activity. At last, the book is a rather useful handbook with fruitful methods on the procedural and functional programming in the Mathematica system.

The Nature of Computation: Logic, Algorithms, Applications McGraw-Hill Companies

This approachable text studies discrete objects and the relationsips 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)

ENGINEERING MATHEMATICS PDQ Press

The Interesting Feature Of This Book Is Its Organization And Structure. That Consists Of Systematizing Of The Definitions, Methods, And Results That Something Resembling A Theory. Simplicity, Clarity, And Precision Of Mathematical Language Makes Theoretical Topics More Appealing To The Readers Who Are Of Mathematical Or Non-Mathematical Background. For Quick References And Immediate Attentions¾Concepts And Definitions, Methods And Theorems, And Key Notes Are Presented Through Highlighted Points From Beginning To End. Whenever, Necessary And Probable A Visual Approach Of Presentation Is Used. The Amalgamation Of Text And Figures Make Mathematical Rigors Easier To Understand. Each Chapter Begins With The Detailed Contents, Which Are Discussed Inside The Chapter And Conclude With A Summary Of The Material Covered In The Chapter. Summary Provides A Brief Overview Of All The Topics Covered In The Chapter. To Demonstrate The Principles Better, The Applicability Of The Concepts Discussed In Each Topic Are Illustrated By Several Examples Followed By The Practice Sets Or Exercises.

Discrete Mathematical Structures

Springer Science & Business Media

Teaches students the mathematical foundations of computer science, including logic, Boolean algebra, basic graph theory, finite state machines, grammars and algorithms, and helps them understand mathematical reasoning for reading, comprehension and construction of mathematical arguments.

Financial Engineering and Computation Createspace Independent Publishing Platform

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.

UNIX and Shell Programming Brooks/Cole Publishing Company
Handbook of Discrete and Combinatorial Mathematics provides a comprehensive reference volume for mathematicians, computer scientists, engineers, as well as students and reference librarians. The material is presented so that key information can be located and used quickly and easily. Each chapter includes a glossary. Individual topics are covered in sections and subsections within chapters, each of which is organized into clearly identifiable parts: definitions, facts, and examples. Examples are provided to illustrate some of the key definitions, facts, and algorithms. Some curious and entertaining facts and puzzles are also included. Readers will also find an extensive collection of biographies. This second edition is a major revision. It includes extensive additions and updates. Since the first edition appeared in 1999, many new discoveries have been made and new areas have grown in importance, which are covered in this edition.

A Short Course in Discrete Mathematics

Macmillan Higher Education
Discrete Mathematical Structures for Computer SciencePrentice Hall
Discrete Mathematical Structures with Applications to Computer Science Royal Society of Chemistry
Solutions manual to accompany Logic and Discrete Mathematics: A Concise Introduction This book features a unique combination of comprehensive coverage of logic with a solid exposition of the most important fields of discrete mathematics, presenting material that has been tested and refined by the authors in university courses taught over more than a decade. Written in a clear and reader-friendly style, each section ends with an extensive set of exercises, most of them provided with complete solutions which are available in this accompanying solutions manual.
Discrete Mathematical Structures for Computer Science McGraw-Hill
This text has been designed as a complete introduction to discrete mathematics, primarily for computer science majors in either a one or two semester course. The topics addressed are of genuine use in computer science, and are presented in a logically coherent fashion. The material has been organized and interrelated to minimize the mass of definitions and the abstraction of some of the theory. For example, relations and directed graphs are treated as two aspects of the same mathematical idea. Whenever possible each new idea uses previously encountered material, and then developed in such a way that it simplifies the more complex ideas that follow.

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