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The mathematical knowledge needed for computer and information sciences including, particularly, the binary number system, logic circuits, graph theory, linear systems, probability and statistics get clear and concise coverage in this invaluable study guide. Basic high school math is all that's needed to follow the explanations and learn from hundreds of practical problems solved step-by-step. Hundreds of review questions with answers help reinforce learning and increase skills.

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A classic Schaum's Outline, thoroughly updated to match the latest course scope and sequence. The ideal review for the thousands of college students who enroll in Probability courses. About the Book An update of this successful outline in probability, modified to conform to the current curriculum. Schaum's Outline of Probability mirrors the course in scope and sequence to help enrolled students understand basic concepts and offer extra practice on topics such as finite and countable sets, binomial coefficients, axioms of probability, conditional probability, expectation of a finite random variable, Poisson distribution, and probability of vectors and Stochastic matrices. Coverage will also include finite Stochastic and tree diagrams, Chebyshev's Inequality

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Profiles Seymour Lipschutz (Philadelphia, PA) who is presently on the mathematics faculty of Temple University, formerly taught at the Polytechnic Institute of Brooklyn and was visiting professor in the Computer Science Department of Brooklyn College. He received his Ph.D. in 1960 at the Courant Institute of mathematical Sciences of New York University. Some of his other books in the Schaum's Outline Series are Beginning Linear Algebra; Discrete Mathematics, 3ed; and Linear Algebra, 4ed. Marc Lipson (Charlottesville, VA) is on the faculty of the University of Virginia. He formerly taught at the University of Georgia, Northeastern University, and Boston University. He received his Ph..D. in finance in 1994 from the University of Michigan. He is also coauthor of the Schaum;s Outline of Discrete Mathematics, 3ed with Seymour Lipschutz.

The ideal review for your intro to probability course More than 40 million students have trusted Schaum's Outlines for their expert knowledge and helpful solved problems. Written by renowned experts in their respective fields, Schaum's Outlines cover everything from math to science, nursing to language. The main feature for all these books is the solved problems. Step-by-step, authors walk readers through coming up with solutions to exercises in their topic of choice. 387 solved problems Covers all probability fundamentals No calculus needed Supports and supplements the leading probability and statistics textbooks Appropriate for the following courses: Introduction to Probability and Statistics, Probability, Statistics, Introduction to Statistics Detailed explanations and practice problems in probability and statistics

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Schaum's Outline of Finite Element Analysis McGraw Hill Professional

This textbook explores both the theoretical foundation of the Finite Volume Method (FVM) and its applications in Computational Fluid Dynamics (CFD).

Readers will discover a thorough explanation of the FVM numerics and algorithms used for the simulation of incompressible and compressible fluid flows, along with a detailed examination of the components needed for the development of a collocated unstructured pressure-based CFD solver.

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Two particular CFD codes are explored. The first is uFVM, a three-dimensional unstructured pressure-based finite volume academic CFD code, implemented within Matlab. The second is OpenFOAM®, an open source framework used in the development of a range of CFD programs for the simulation of industrial scale flow problems. With over 220 figures, numerous examples and more than one hundred exercise on FVM numerics, programming, and applications, this textbook is suitable for use in an introductory course on the FVM, in an advanced course on numerics, and as a reference for CFD programmers and researchers. Selling over 220,000 copies in its first edition, Schaum's Outline of Probability and Statistics has become a vital resource for the more than 977,000 college students who enroll in related probability and statistics courses each year. Its big-picture, calculus-based approach makes it an especially authoritative reference for engineering and science majors. Now thoroughly update, this second edition includes vital new coverage of order statistics, best critical regions, likelihood ratio tests, and other key topics.

Most colleges and universities now require their non-science majors to take a one- or two-semester course in mathematics. Taken by 300,000 students annually, finite mathematics is the most popular. Updated and revised to match the structures and

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syllabuses of contemporary course offerings, Schaum's Outline of Beginning Finite Mathematics provides a thorough review-- with worked examples--of the fundamentals of linear equations and linear growth. Topics covered include games theory, descriptive statistics, normal distribution, probability, binomial distribution, and voting systems and apportionment.

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

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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 ideal review for your probability course More than 40 million students have trusted Schaum's Outlines for their expert knowledge and helpful solved problems. Written by renowned experts in their respective fields, Schaum's Outlines cover everything from math to science, nursing to language. The main feature for all these books is the solved problems. Step-by-step, authors walk readers through coming up with solutions to exercises in their topic of choice. Outline format supplies a concise guide to the standard college course in probability 430 solved problems Supports all the major textbooks for Probability courses Clear, concise explanations of all Probability concepts Appropriate for the following courses: Elementary Probability & Statistics; Data Analysis; Finite Mathematics; Introduction to Mathematical Statistics; Mathematics for Biological Sciences; Introductory Statistics; Discrete Mathematics; Probability for Applied Science; Introduction to Probability Theory Boiled-down essentials of the top-selling Schaum's Outline series for the student with limited time What could be better than the bestselling Schaum's Outline series? For students looking for a quick nuts-

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Cartoons, sidebars, icons, and other graphic pointers get the material across fast Concise text focuses on the essence of the subject Delivers expert help from teachers who are authorities in their fields Perfect for last-minute test preparation So small and light that they fit in a backpack!

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The first edition of this book sold more than 100,000 copies—and this new edition will show you why! Schaum's Outline of Discrete Mathematics shows you step by step how to solve the kind of problems you're going to find on your exams. And this new edition features all the latest applications of discrete mathematics to computer science! This guide can be used as a supplement, to reinforce and strengthen the work you do with your class text. (It works well with virtually any discrete mathematics textbook.) But it is so comprehensive that it can even be used alone as a text in discrete mathematics or as independent study tool!

It has been evident for several years that a summary of where we came from, where we are, and where we are going with computer-oriented research was not only desirable but necessary. The application of computers by earth scientists is numerous and the methods have proved of value in problem solving as well as data processing. Many methods unknown or

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unavailable just a few years ago now are used routinely. An overall appraisal of the methods at this time is deemed more than appropriate. Preface to the program was stated as Computer applications in the earth sciences is the subject of this International Symposium held on campus at The University of Kansas at Lawrence on 16, 17, and 18 June 1969. The symposium, the sixth in a series, is sponsored by the Kansas Geological Survey, International Association for Mathematical Geology, and University Extension. Papers by leading experts in their field stress the "status-of-the-art." Speakers will discuss the use of computers in the earth sciences, past, present, and future. The meeting is planned for those not acquainted with the tremendous advancements made in quantitative methods in recent years and those who are interested in future possibilities.

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More than 225,000 students study set theory every year. This is an ideal supplementary study guide for all textbooks on the subject, or it can be used as a complete self-study course. It makes math clear to liberal arts majors and teaches effective problem solving with 530 fully solved example problems. Illustrated. Copyright © Libri GmbH. All rights reserved.

Finite Mathematics is designed for the one-term course in finite math taken primarily by students majoring in business, economics, life sciences, and the social sciences. The mathematical integrity of the previous edition has been maintained in the new edition. The core topics and their applications are presented in Parts One and Two of this text, and additional applications are developed in Part Three. Parts One and Two are independent of one another, thus either probability or linear mathematics may be studied first. The authors' emphasis is on developing and testing the student's problem-solving ability. They use discussions and examples to illustrate

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ideas and techniques to aid the student in acquiring these skills. Some examples and exercises are straightforward computation, while others require that the problem be solved by combining several techniques. Since it is impossible to provide examples of every type of problem the student will encounter in the text, the authors have identified and treated the fundamental principles that should be used in unfamiliar situations.

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If you want top grades and thorough understanding of precalculus, this powerful study tool is the best tutor you can have! It takes you step-by-step through the subject and gives you more than 600 accompanying related problems with fully worked solutions. You also get plenty of practice problems to do on your own, working at your own speed.

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(Answers provided to show you how you're doing.)
Famous for their clarity, wealth of illustrations and examples, and lack of dreary minutiae, Schaum's Outlines have sold more than 30 million copies worldwide and this guide will show you why!

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