

finite and discrete math problem solver problem solvers solution guides

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Finite and Discrete Math Problem Solver

h Problem Solver is an insightful and essential study and solution guide chock-full of clear, concise problem-solving gems. All your questions can be found in one convenient source from one of the most trusted names in reference solution guides. More useful, more practical, and more informative, these study aids are the best review books and textbook companions available. Nothing remotely as comprehensive or as helpful exists in their subject anywhere. Perfect for undergraduate and graduate studies. Here in this highly useful reference is the finest overview of finite and discrete math currently available, with hundreds of finite and discrete math problems that cover everything from graph theory and statistics to probability and Boolean algebra. Each problem is clearly solved with step-by-step detailed solutions. DETAILS - The PROBLEM SOLVERS are unique - the ultimate in study guides. - They are ideal for helping students cope with the toughest subjects. - They greatly simplify study and learning tasks. - They enable students to come to grips with difficult problems by showing them the way, step-by-step, toward solving problems. As a result, they save hours of frustration and time spent on groping for answers and understanding. - They cover material ranging from the elementary to the advanced in each subject. - They work exceptionally well with any text in its field. - PROBLEM SOLVERS are available in 41 subjects. - Each PROBLEM SOLVER is prepared by supremely knowledgeable experts. - Most are over 1000 pages. - PROBLEM SOLVERS are not meant to be read cover to cover. They offer whatever may be needed at a given time. An excellent index helps to locate specific problems rapidly. TABLE OF CONTENTS Introduction Chapter 1: Logic Statements, Negations, Conjunctions, and Disjunctions Truth Table and Proposition Calculus Conditional and Biconditional Statements Mathematical Induction Chapter 2: Set Theory Sets and Subsets Set Operations Venn Diagram Cartesian Product Applications Chapter 3: Relations Relations and Graphs Inverse Relations and Composition of Relations Properties of Relations Equivalence Relations Chapter 4: Functions Functions and Graphs Surjective, Injective, and Bijective Functions Chapter 5: Vectors and Matrices

Vectors Matrix Arithmetic The Inverse and Rank of a Matrix Determinants Matrices and Systems of Equations, Cramer's Rule Special Kinds of Matrices Chapter 6: Graph Theory Graphs and Directed Graphs Matrices and Graphs Isomorphic and Homeomorphic Graphs Planar Graphs and Colorations Trees Shortest Path(s) Maximum Flow Chapter 7: Counting and Binomial Theorem Factorial Notation Counting Principles Permutations Combinations The Binomial Theorem Chapter 8: Probability Probability Conditional Probability and Bayes' Theorem Chapter 9: Statistics Descriptive Statistics Probability Distributions The Binomial and Joint Distributions Functions of Random Variables Expected Value Moment Generating Function Special Discrete Distributions Normal Distributions Special Continuous Distributions Sampling Theory Confidence Intervals Point Estimation Hypothesis Testing Regression and Correlation Analysis Non-Parametric Methods Chi-Square and Contingency Tables Miscellaneous Applications Chapter 10: Boolean Algebra Boolean Algebra and Boolean Functions Minimization Switching Circuits Chapter 11: Linear Programming and the Theory of Games Systems of Linear Inequalities Geometric Solutions and Dual of Linear Programming Problems The Simplex Method Linear Programming - Advanced Methods Integer Programming The Theory of Games Index

WHAT THIS BOOK IS FOR Students have generally found finite and discrete math difficult subjects to understand and learn. Despite the publication of hundreds of textbooks in this field, each one intended to provide an improvement over previous textbooks, students of finite and discrete math continue to remain perplexed as a result of numerous subject areas that must be remembered and correlated when solving problems. Various interpretations of finite and discrete math terms also contribute to the difficulties of mastering the subject. In a study of finite and discrete math, REA found the following basic reasons underlying the inherent difficulties of finite and discrete math: No systematic rules of analysis were ever developed to follow in a step-by-step manner to solve typically encountered problems. This results from numerous different conditions and principles involved in a problem that leads to many possible different solution methods. To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps, making this task more burdensome than solving the problem directly due to the expectation of much trial and error. Current textbooks normally explain a given principle in a few pages written by a finite and discrete math professional who has insight into the subject matter not shared by others. These explanations are often written in an abstract manner that causes confusion as to the principle's use and application. Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied. The numerous possible variations of principles and their applications are usually not discussed, and it is left to the reader to discover this while doing exercises. Accordingly, the average student is expected to rediscover that which has long been established and practiced, but not always published or adequately explained. The examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles. The explanations do not provide sufficient basis to solve problems that may be assigned for homework or given on examinations. Poorly solved examples such as these can be presented in abbreviated form which leaves out much explanatory material between steps, and as a result requires the reader to figure out the missing information. This leaves the reader with an impression that the problems and even the subject are hard to learn - completely the opposite of what an example is supposed to do. Poor examples are often worded in a confusing or obscure way. They might not state the nature of the problem or they present a solution, which appears to have no direct relation to the problem. These problems usually offer an overly general discussion - never revealing how or what is to be solved. Many examples do not include accompanying diagrams or graphs, denying the reader the exposure necessary for drawing good diagrams and graphs. Such practice only strengthens understanding by simplifying and organizing finite and discrete math processes. Students can learn the subject only by doing the exercises themselves and reviewing them in class, obtaining experience in applying the principles with their different ramifications. In doing the exercises by themselves, students find that they are required to devote considerable more time to finite and discrete math than to other subjects, because they are uncertain with regard to the selection and application of the theorems and principles involved. It is also often necessary for students to discover those "tricks" not revealed in their texts (or review books) that make it possible to solve problems easily. Students must usually resort to methods of trial and error to discover these "tricks," therefore finding out that they may sometimes spend several hours to solve a single problem. When reviewing the exercises in classrooms, instructors usually request students to take turns in writing solutions on the boards and explaining them to the class. Students often find it difficult to explain in a manner that holds the interest of the class, and enables the remaining students to follow the material written on the boards. The remaining students in the class are thus too occupied with copying the material off the boards to follow the professor's explanations. This book is intended to aid students in finite and discrete math overcome the difficulties

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REA's Advanced Calculus Problem Solver Each Problem Solver is an insightful and essential study and solution guide chock-full of clear, concise problem-solving gems. Answers to all of your questions can be found in one convenient source from one of the most trusted names in reference solution guides. More useful, more practical, and more informative, these study aids are the best review books and textbook companions available. They're perfect for undergraduate and graduate studies. This highly useful reference is the finest overview of advanced calculus currently available, with hundreds of calculus problems that cover everything from point set theory and vector spaces to theories of differentiation and integrals. Each problem is clearly solved with step-by-step detailed solutions.

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Numerical Analysis Problem Solver

The Problem Solvers are an exceptional series of books that are thorough, unusually well-organized, and structured in such a way that they can be used with any text. No other series of study and solution guides has come close to the Problem Solvers in usefulness, quality, and effectiveness. Educators consider the Problem Solvers the most effective series of study aids on the market. Students regard them as most helpful for their school work and studies. With these books, students do not merely memorize the subject matter, they really get to understand it. Each Problem Solver is over 1,000 pages, yet each saves hours of time in studying and finding solutions to problems. These solutions are worked out in step-by-step detail, thoroughly and clearly. Each book is fully indexed for locating specific problems rapidly. An essential subject for students in mathematics, computer science, engineering, and science. The 19 chapters cover basic, as well as advanced, methods of numerical analysis. A large number of related applications are included.

2000 Solved Problems in Discrete Mathematics

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 grades with these indispensable guides. Get the edge on your classmates. Use Schaum's! If you don't have a lot of time but want to excel in class, use this book to: Brush up before tests Study quickly and more effectively Learn the best strategies for solving tough problems in step-by-step detail Review what you've learned in class by solving thousands of relevant problems that test your skill Compatible with any classroom text, Schaum's Solved Problem Guides let you practice at your own pace and remind you of all the important problem-solving techniques you need to remember--fast! And Schaum's are so complete, they're perfect for preparing for graduate or professional exams. Inside you will find: 2,000 solved problems with complete solutions--the largest selection of solved problems yet published on this subject An index to help you quickly locate the types of problems you want to solve Problems like those you'll find on your exams Techniques for choosing the correct approach to problems Guidance toward the quickest, most efficient solutions If you want top grades and thorough understanding of discrete mathematics, this powerful study tool is the best tutor you can have!

Calculus Problem Solver

Each Problem Solver is an insightful and essential study and solution guide chock-full of clear, concise problem-solving gems. All your questions can be found in one convenient source from one of the most trusted names in reference solution guides. More useful, more practical, and more informative, these study aids are the best review books and textbook companions available. Nothing remotely as comprehensive or as helpful exists in their subject anywhere. Perfect for undergraduate and graduate studies. Here in this highly useful reference is the finest overview of calculus currently available,

with hundreds of calculus problems that cover everything from inequalities and absolute values to parametric equations and differentials. Each problem is clearly solved with step-by-step detailed solutions. DETAILS - The PROBLEM SOLVERS are unique - the ultimate in study guides. - They are ideal for helping students cope with the toughest subjects. - They greatly simplify study and learning tasks. - They enable students to come to grips with difficult problems by showing them the way, step-by-step, toward solving problems. As a result, they save hours of frustration and time spent on groping for answers and understanding. - They cover material ranging from the elementary to the advanced in each subject. - They work exceptionally well with any text in its field. - PROBLEM SOLVERS are available in 41 subjects. - Each PROBLEM SOLVER is prepared by supremely knowledgeable experts. - Most are over 1000 pages. - PROBLEM SOLVERS are not meant to be read cover to cover. They offer whatever may be needed at a given time. An excellent index helps to locate specific problems rapidly.

Operations Research Problem Solver

Designed specifically for use by engineering students. Contains comprehensive treatments of all areas of mathematics and their applications. Included are problems and solutions for calculus, complex variables, electronics, mechanics, physics, and other areas of mathematical study.

Electromagnetics Problem Solver

An excellent source book for those who are beginning the medical or dental school application process. Included are profiles on every U.S. And Canadian medical and dental school as well as information on select foreign medical schools. Also included are sections on osteopathic schools, chiropractic schools, and podiatric schools. Important information is also included on undergraduate preparation, the application process, financial aid, and graduation requirements.

Mathematics for Engineers Problem Solver

REA's Pre-Calculus Problem Solver Each Problem Solver is an insightful and essential study and solution guide chock-full of clear, concise problem-solving gems. Answers to all of your questions can be found in one convenient source from one of the most trusted names in reference solution guides. More useful, more practical, and more informative, these study aids are the best review books and textbook companions available. They're perfect for undergraduate and graduate studies. This highly useful reference provides thorough coverage of first-year college math, including algebraic, trigonometric, exponential, and logarithmic functions and their graphs. Includes solutions of linear and quadratic equations, analytic geometry, elementary statistics, differentiation and integration, determinants, matrices, and systems of equations. Problem-solving strategies are included at the beginning of every chapter for each topic covered.

REA's Authoritative Guide to Medical & Dental Schools

This directory provides detailed profiles of the top 100 graduate schools of business in the United States and abroad. A quick-reference chart presents important comparative data at a glance. In addition, information on admissions, applications procedures, financial aid, the GMAT, and pre-admission advice is given in introductory essays.

Pre-Calculus Problem Solver

This book provides current information on the top 100 careers. Each career is described in detail, including job duties, training and education requirements, salary, projected job availability, and related occupations. It includes a special section on how to find a job, write a resume and cover letter, and provides tips for effective job interviews.

REA's Authoritative Guide to the Top 100 Business Schools

REA's MAXnotes for Toni Morrison's Beloved MAXnotes offer a fresh look at masterpieces of literature, presented in a lively and interesting fashion. Written by literary experts who currently teach the subject, MAXnotes will enhance your understanding and enjoyment of the work. MAXnotes are designed to stimulate independent thought about the literary work by raising various issues and thought-provoking ideas and questions. MAXnotes cover the essentials of what one should know about each work, including an overall summary, character lists, an explanation and discussion of the plot, the work's

historical context, illustrations to convey the mood of the work, and a biography of the author. Each chapter is individually summarized and analyzed, and has study questions and answers.

REA's Authoritative Guide to the Top 100 Careers to Year 2005

REA's MAXnotes for William Shakespeare's Antony and Cleopatra The MAXnotes offers a comprehensive summary and analysis of Antony and Cleopatra and a biography of William Shakespeare. Places the events of the play in historical context and discusses each act in detail. Includes study questions and answers along with topics for papers and sample outlines.

Beloved (MAXNotes Literature Guides)

Provides each kind of problem that might appear on an examination, and includes detailed solutions.

Antony and Cleopatra (MAXNotes Literature Guides)

REA's Problem Solvers is a series of useful, practical, and informative study guides. Each title in the series is complete step-by-step solution guide. The Differential Equations Problem Solver enables students to solve difficult problems by showing them step-by-step solutions to Differential Equations problems. The Problem Solvers cover material ranging from the elementary to the advanced and make excellent review books and textbook companions. They're perfect for undergraduate and graduate studies. The Differential Equations Problem Solver is the perfect resource for any class, any exam, and any problem.

The Pre-calculus Problem Solver

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The Pre-calculus Problem Solver

Exhaustive coverage is given to all major topics in probability. Among the many topics covered are set theory, Venn diagrams, discrete random variables, continuous random variables, moments, joint distributions, laws of large numbers, and the central limit theorem. Specific exercises and examples accompany each chapter. This book is a necessity for anyone studying probability and statistics.

Strength of Materials Mechanics of Solids Problem Solver

Each Problem Solver is an insightful and essential study and solution guide chock-full of clear, concise problem-solving gems. Answers to all of your questions can be found in one convenient source from one of the most trusted names in reference solution guides. More useful, more practical, and more informative, these study aids are the best review books and textbook companions available. Nothing remotely as comprehensive or as helpful exists in their subject anywhere. Perfect for undergraduate and graduate studies. Here in this highly useful reference is the finest overview of accounting currently available, with hundreds of accounting problems that cover everything from interest and cash flow to taxes and corporate earnings. Each problem is clearly solved with step-by-step detailed solutions. DETAILS - The PROBLEM SOLVERS are unique - the ultimate in study guides. - They are ideal for helping students cope with the toughest subjects. - They greatly simplify study and learning tasks. - They enable students to come to grips with difficult problems by showing them the way, step-by-step, toward solving problems. As a result, they save hours of frustration and time spent on groping for answers and understanding. - They cover material ranging from the elementary to the advanced in each subject. - They work exceptionally well with any text in its field. - PROBLEM SOLVERS are available in

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WHAT THIS BOOK IS FOR

Students have generally found accounting a difficult subject to understand and learn. Despite the publication of hundreds of textbooks in this field, each one intended to provide an improvement over previous textbooks, students of accounting continue to remain perplexed as a result of numerous subject areas that must be remembered and correlated when solving problems. Various interpretations of accounting terms also contribute to the difficulties of mastering the subject. In a study of accounting, REA found the following basic reasons underlying the inherent difficulties of accounting: No systematic rules of analysis were ever developed to follow in a step-by-step manner to solve typically encountered problems. This results from numerous different conditions and principles involved in a problem that leads to many possible different solution methods. To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps, making this task more burdensome than solving the problem directly due to the expectation of much trial and error. Current textbooks normally explain a given principle in a few pages written by an accounting professional who has insight into the subject matter not shared by others. These explanations are often written in an abstract manner that causes confusion as to the principle's use and application. Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied. The numerous possible variations of principles and their applications are usually not discussed, and it is left to the reader to discover this while doing exercises. Accordingly, the average student is expected to rediscover that which has long been established and practiced, but not always published or adequately explained. The examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles. The explanations do not provide sufficient basis to solve problems that may be assigned for homework or given on examinations. Poorly solved examples such as these can be presented in abbreviated form which leaves out much explanatory material between steps, and as a result requires the reader to figure out the missing information. This leaves the reader with an impression that the problems and even the subject are hard to learn - completely the opposite of what an example is supposed to do. Poor examples are often worded in a confusing or obscure way. They might not state the nature of the problem or they present a solution, which appears to have no direct relation to the problem. These problems usually offer an overly general discussion - never revealing how or what is to be solved. Many examples do not include accompanying diagrams or graphs denying the reader the exposure necessary for drawing good diagrams and graphs. Such practice only strengthens understanding by simplifying and organizing accounting processes. Students can learn the subject only by doing the exercises themselves and reviewing them in class, obtaining experience in applying the principles with their different ramifications. In doing the exercises by themselves, students find that they are required to devote considerable more time to accounting than to other subjects, because they are uncertain with regard to the selection and application of the theorems and principles involved. It is also often necessary for students to discover those "tricks" not revealed in their texts (or review books) that make it possible to solve problems easily. Students must usually resort to methods of trial and error to discover these "tricks," therefore finding out that they may sometimes spend several hours to solve a single problem. When reviewing the exercises in classrooms, instructors usually request students to take turns in writing solutions on the boards and explaining them to the class. Students often find it difficult to explain in a manner that holds the interest of the class, and enables the remaining students to follow the material written on the boards. The remaining students in the class are thus too occupied with copying the material off the boards to follow the professor's explanations. This book is intended to aid students in accounting overcome the difficulties described by supplying detailed illustrations of the solution methods that are usually not apparent to students. Solution methods are illustrated by problems that have been selected from those

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Differential Equations Problem Solver

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Fluid Mechanics/Dynamics Problem Solver

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The Aeneid (MAXNotes Literature Guides)

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CBEST

The AP English Language and Composition