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Galois Theory and Applications-Mohamed Ayad 2018-04-26
Inequalities-Radmila Bulajich Manfrino 2010-01-01 This book is intended for the Mathematical Olympiad students who wish to prepare for the study of inequalities, a topic now of frequent use at various levels of mathematical competitions. In this volume we present both classic inequalities and the more useful inequalities for confronting and solving optimization problems. An important part of this book deals with geometric inequalities and this fact makes a big difference with respect to most of the books that deal with this topic in the mathematical olympiad. The book has been organized in four chapters which have each of them a different character. Chapter 1 is dedicated to present basic inequalities. Most of them are numerical inequalities generally lacking any geometric meaning. However, where it is possible to provide a geometric interpretation, we include it as we go along. We emphasize the importance of some of these inequalities, such as the inequality between the arithmetic mean and the geometric mean, the Cauchy-Schwarz inequality, the rearrangementinequality, the Jensen inequality, the Muirhead theorem, among others. For all these, besides giving the proof, we present several examples that show how to use them in mathematical olympiad problems. We also emphasize how the substitution strategy is used to deduce several inequalities.
1000 Solved Problems in Classical Physics-Ahmad A. Kamal 2011-03-18 This book basically caters to the needs of undergraduates and graduates physics students in the area of classical physics, specially Classical Mechanics and Electricity and Electromagnetism. Lecturers/ Tutors may use it as a resource book. The contents of the book are based on the syllabi currently used in the undergraduate courses in USA, U.K., and other countries. The book is divided into 15 chapters, each chapter beginning with a brief but adequate summary and necessary formulas and Line diagrams followed by a variety of typical problems useful for assignments and exams. Detailed solutions are provided at the end of each chapter.
Combinatorial Problems and Exercises-László Lovász 2007 The main purpose of this book is to provide help in learning existing techniques in combinatorics. The most effective way of learning such techniques is to solve exercises and problems. This book presents all the material in the form of problems and series of problems (apart from some general comments at the beginning of each chapter). In the second part, a hint is given for each exercise, which contains the main idea necessary for the solution, but allows the reader to practice the techniques by completing the proof. In the third part, a full solution is provided for each problem. This book will be useful to those students who intend to start research in graph theory, combinatorics or their applications, and for those researchers who feel that combinatorial techniques might help them with their work in other branches of mathematics, computer science, management science, electrical engineering and so on. For background, only the elements of linear algebra, group theory, probability and calculus are needed.
Problem-Solving Exercises in Green and Sustainable Chemistry-Albert S. Matlack 2015-11-05 When confronted with a problem in science, the way to proceed is not always obvious. The problem may seem intractable or there may be many possible solutions, with some better than others. Problem-Solving Exercises in Green and Sustainable Chemistry teaches students how to analyze and solve real-world problems that occur in an environmental context, and it encourages creativity in developing solutions to situations based on events that have actually taken place. The problems described in this book are relevant and stimulating in learning and understanding the principles of green and sustainable chemistry. They address various aspects of the field, including: Toxicity Waste generation and disposal Chemical accidents Energy efficiency New policy development The final chapter contains proposed solutions to the presented problems and provides commentaries and references to relevant literature. This book also prompts students to become more comfortable with the idea of multiple "correct" answers to problems. It emphasizes the reality that green chemistry is about making practical decisions and weighing multiple factors that are often conflicting, thus making it difficult or impossible to apply one perfect solution to a given situation. Problem-Solving Exercises in Green and Sustainable Chemistry prepares students to solve challenging problems, whether as green chemists, as architects designing energy-efficient buildings, or as environmentally-conscious citizens.
Martingales and Markov Chains-Paolo Baldi 2002-04-26 A thorough grounding in Markov chains and martingales is essential in dealing with many problems in applied probability, and is a gateway to the more complex situations encountered in the study of stochastic processes. Exercises are a fundamental and valuable training tool that deepen students' understanding of theoretical principles and prepare them to tackle real problems. In addition to a quick but thorough exposition of the theory, Martingales and Markov Chains: Solved Exercises and Elements of Theory presents, more than 100 exercises related to martingales and Markov chains with a countable state space, each with a full and detailed solution. The authors begin with a review of the basic notions of conditional expectations and stochastic processes, then set the stage for each set of exercises by recalling the relevant elements of the theory. The exercises range in difficulty from the elementary, requiring use of the basic theory, to the more advanced, which challenge the reader's initiative. Each section also contains a set of problems that open the door to specific applications. Designed for senior undergraduate- and graduate level students, this text goes well beyond merely offering hints for solving the exercises, but it is much more than just a solutions manual. Within its solutions, it provides frequent references to the relevant theory, proposes alternative ways of approaching the problem, and discusses and compares the arguments involved.
Problems, Problems, Problems!- 1978 Provides word problems that deal with problem solving.
Solving Numerical PDEs: Problems, Applications, Exercises-Luca Formaggia 2012-04-05 This book stems from the long standing teaching experience of the authors in the courses on Numerical Methods in Engineering and Numerical Methods for Partial Differential Equations given to undergraduate and graduate students of Politecnico di Milano (Italy), EPFL Lausanne (Switzerland), University of Bergamo (Italy) and Emory University (Atlanta, USA). It aims at introducing students to the numerical approximation of Partial Differential Equations (PDEs). One of the difficulties of this subject is to identify the right trade-off between theoretical concepts and their actual use in practice. With this collection of examples and exercises we try to address this issue by illustrating "academic" examples which focus on basic concepts of Numerical Analysis as well as problems derived from practical application which the student is encouraged to formalize in terms of PDEs, analyze and solve. The latter examples are derived from the experience of the authors in research project developed in collaboration with scientists of different fields (biology, medicine, etc.) and industry. We wanted this book to be useful both to readers more interested in the theoretical aspects and those more concerned with the numerical implementation.
Martingales and Markov Chains-Paolo Baldi 2002-04-26 A thorough grounding in Markov chains and martingales is essential in dealing with many problems in applied probability, and is a gateway to the more complex situations encountered in the study of stochastic processes. Exercises are a fundamental and valuable training tool that deepen students' understanding of theoretical principles and prepare th
Solved Problems in Geophysics-Elisa Buforn 2012-04-26 A collection of nearly 200 geophysics problems, with detailed solutions, forming an ideal course supplement for students and instructors.
Supergravity-Daniel Z. Freedman 2012-04-05 Supergravity, together with string theory, is one of the most significant developments in theoretical physics. Written by two of the most respected workers in the field, this is the first-ever authoritative and systematic account of supergravity. The book starts by reviewing aspects of relativistic field theory in Minkowski spacetime. After introducing the relevant ingredients of differential geometry and gravity, some basic supergravity theories (D=4 and D=11) and the main gauge theory tools are explained. In the second half of the book, complex geometry and N=1 and N=2 supergravity theories are covered. Classical solutions and a chapter on AdS/CFT complete the book. Numerous exercises and examples make it ideal for Ph.D. students, and with applications to model building, cosmology and solutions of supergravity theories, it is also invaluable to researchers. A website hosted by the authors, featuring solutions to some exercises and additional reading material, can be found at www.cambridge.org/supergravity.
Introduction To Algorithms-Thomas H.. Cormen 2001 An extensively revised edition of a mathematically rigorous yet accessible introduction to algorithms.
Leadership Roles and Management Functions in Nursing-Bessie L. Marquis 2009 Now in its Sixth Edition, this foremost leadership and management text incorporates application with theory and emphasizes critical thinking, problem solving, and decision making. More than 225 case studies and learning exercises promote critical thinking and interactive discussion. Case studies cover a variety of settings, including acute care, ambulatory care, long-term care, and community health. The book addresses timely issues such as leadership development, staffing, delegation, ethics and law, organizational, political, and personal power, management and technology, and more. Web links and learning exercises appear in each chapter. An Instructor's CD-ROM includes a testbank and PowerPoint slides.
Computer System Security: Basic Concepts and Solved Exercises-Gildas Avoine 2007-07-13 Computer System Security: Basic Concepts and Solved Exercises is designed to expose students and others to the basic aspects of computer security. Written by leading experts and instructors, it covers e-mail security; viruses and antivirus programs; program and network vulnerabilities; firewalls, address translation and filtering; cryptography; secure communications; secure applications; and security management. Written as an accompanying text for courses on network protocols, it also provides a basic tutorial for those whose livelihood is dependent upon secure systems. The solved exercises included have been taken from courses taught in the Communication Systems department at the EPFL. .
Solved Problems in Lagrangian and Hamiltonian Mechanics-Claude Gignoux 2009-07-14 The aim of this work is to bridge the gap between the well-known Newtonian mechanics and the studies on chaos, ordinarily reserved to experts. Several topics are treated: Lagrangian, Hamiltonian and Jacobi formalisms, studies of integrable and quasi-integrable systems. The chapter devoted to chaos also enables a simple presentation of the KAM theorem. All the important notions are recalled in summaries of the lectures. They are illustrated by many original problems, stemming from real-life situations, the solutions of which are worked out in great detail for the benefit of the reader. This book will be of interest to undergraduate students as well as others whose work involves mechanics, physics and engineering in general.
Numerical Methods for Solving Inverse Problems of Mathematical Physics-A. A. Samarskii 2007-01-01 The main classes of inverse problems for equations of mathematical physics and their numerical solution methods are considered in this book which is intended for graduate students and experts in applied mathematics, computational mathematics, and mathematical modelling.
Solving Direct and Inverse Heat Conduction Problems-Jan Taler 2010-04-16 This book presents a solution for direct and inverse heat conduction problems, discussing the theoretical basis for the heat transfer process and presenting selected theoretical and numerical problems in the form of exercises with solutions. The book covers one-, two- and three dimensional problems which are solved by using exact and approximate analytical methods and numerical methods. An accompanying CD-Rom includes computational solutions of the examples and extensive FORTRAN code.
Foundations of Analog and Digital Electronic Circuits-Anant Agarwal 2005-07-01 Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of ''abstraction,'' the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.
Lectures in Classical Mechanics-Victor Ilisie 2020-02-05 This exceptionally well-organized book uses solved problems and exercises to help readers understand the underlying concepts of classical mechanics; accordingly, many of the exercises included are of a conceptual rather than practical nature. A minimum of necessary background theory is presented, before readers are asked to solve the theoretical exercises. In this way, readers are effectively invited to discover concepts on their own. While more practical exercises are also included, they are always designed to introduce readers to something conceptually new. Special emphasis is placed on important but often-neglected concepts such as symmetries and invariance, especially when introducing vector analysis in Cartesian and curvilinear coordinates. More difficult concepts, including non-inertial reference frames, rigid body motion, variable mass systems, basic tensorial algebra, and calculus, are covered in detail. The equations of motion in non-inertial reference systems are derived in two independent ways, and alternative deductions of the equations of motion for variable mass problems are presented. Lagrangian and Hamiltonian formulations of mechanics are studied for non-relativistic cases, and further concepts such as inertial reference frames and the equivalence principle are introduced and elaborated on.
The solution of geometrical exercises, explained and illustrated; with a complete key to the School Euclid-Charles Mansford 1879
MATHEMATICS FOR ELEMENTARY TEACHERS. (PRODUCT ID 23864410).-MICHELLE. MANES 2018
R for Data Science-Hadley Wickham 2016-12-12 “This book introduces you to R, RStudio, and the tidyverse, a collection of R packages designed to work together to make data science fast, fluent, and fun. Suitable for readers with no previous programming experience"--
Problem Solving Through Recreational Mathematics-Bonnie Averbach 2012-03-15 Fascinating approach to mathematical teaching stresses use of recreational problems, puzzles, and games to teach critical thinking. Logic, number and graph theory, games of strategy, much more. Includes answers to selected problems. Free solutions manual available for download at the Dover website.
Problem-Solving Exercises in Physics-Jennifer Bond Hickman 2001-08-01 Authored by Paul Hewitt, the pioneer of the enormously successful “concepts before computation” approach, Conceptual Physics boosts student success by first building a solid conceptual understanding of physics. Hewitt's 3-step learning approach--explore, develop, and apply--makes physics more accessible for today's students.
Practical Field Exercises in Minor Tactics and Strategy-John Philip Wisser 1903
Creative Problem Solving-Arthur B. VanGundy 1987-01 Creative problem solving (CPS) is a six-step process designed to help people systematically resolve nonroutine, ambiguous types of problems. Because most organizational problems tend to be nonroutine, skill in using CPS process can confer a significant competitive advantage. Creative Problem Solving gives training managers the information they need to develop and teach a course on CPS. VanGundy provides an overview of the process, elements of the creative climate needed to foster CPS and innovative thinking, creative thinking exercises designed to illustrate specific CPS principles, and easy-to-follow descriptions of proven idea-generated methods.
Solving Free-boundary Problems with Applications in Finance-Kumar Muthuraman 2008 Outlines and explains a recent computational method that solves free boundary problems by reducing them into a sequence of fixed boundary problems which are relatively easy to solve numerically.
Teaching and Learning Mathematical Problem Solving-Edward A. Silver 2013-04-03 A provocative collection of papers containing comprehensive reviews of previous research, teaching techniques, and pointers for direction of future study. Provides both a comprehensive assessment of the latest research on mathematical problem solving, with special emphasis on its teaching, and an attempt to increase communication across the active disciplines in this area.
Solved Problems in Geostatistics-Oy Leuangthong 2011-09-20 This unique book presents a learn-by-doing introduction togeostatistics. Geostatistics provides the essential numerical tools foraddressing research problems that are encountered in fields ofstudy such as geology, engineering, and the earth sciences.Illustrating key methods through both theoretical and practicalexercises, Solved Problems in Geostatistics is a valuableand well-organized collection of worked-out problems that allow thereader to master the statistical techniques for modeling data inthe geological sciences. The book's scope of coverage begins with the elements fromstatistics and probability that form the foundation of mostgeostatistical methodologies, such as declustering, debiasingmethods, and Monte Carlo simulation. Next, the authors delve intothree fundamental areas in conventional geostatistics: covarianceand variogram functions; kriging; and Gaussian simulation. Finally,special topics are introduced through problems involving utilitytheory, loss functions, and multiple-point geostatistics. Each topic is treated in the same clearly organized format.First, an objective presents the main concepts that will beestablished in the section. Next, the background and assumptionsare outlined, supplying the comprehensive foundation that isnecessary to begin work on the problem. A solution plandemonstrates the steps and considerations that have to be takenwhen working with the exercise, and the solution allows the readerto check their work. Finally, a remarks section highlights theoverarching principles and noteworthy aspects of the problem. Additional exercises are available via a related Web site, whichalso includes data related to the book problems and softwareprograms that facilitate their resolution. Enforcing a trulyhands-on approach to the topic, Solved Problems inGeostatistics is an indispensable supplement for courses ongeostatistics and spatial statistics a the upper-undergraduate andgraduate levels.It also serves as an applied reference forpracticing professionals in the geosciences.
Successful Trouble Shooting for Process Engineers-Donald R. Woods 2006-05-12 Chemical production processes consist of many complex apparatuses involving both moving and static parts as well as interconnecting pipes, control mechanisms and electronics, mechanical and thermal stages, heat exchangers, waste and side product processing units, power ducts and many others. Bringing such a complicated unit online and ensuring its continued productivity requires substantial skill at anticipating, detecting and solving acute problems. This book is the professional's and student's entrance to the fascinating and important world of trouble shooting for chemical, pharmaceutical and other production processes.
Student Solutions Manual to Boundary Value Problems-David L. Powers 2005-12-30 This student solutions manual accompanies the text, Boundary Value Problems and Partial Differential Equations, 5e. The SSM is available in print via PDF or electronically, and provides the student with the detailed solutions of the odd-numbered problems contained throughout the book. Provides students with exercises that skillfully illustrate the techniques used in the text to solve science and engineering problems Nearly 900 exercises ranging in difficulty from basic drills to advanced problem-solving exercises Many exercises based on current engineering applications
Outline Studies in Arithmetic, Algebra and Geometry-Howard Daniel Minchin 1919
Optometric Courses of Study- 1919
Solving Math Problems-Field Stone Publishers 2008
400 Solved Exercises of University Physics-Gregorio Chenlo Romero 2020-03-02 400 SOLVED EXERCISES OF UNIVERSITY PHYSICS: Useful for students & teachersExcellent practical and self-help manual, with real exercises for the majority of the subjects taught in the Physics course, included in the 1st year of the University Careers in the Colleges of Sciences and in which this is fundamental: Physics, Chemistry, Biology, Geology, Mathematics, Engineering, etc.With the use of this book, the readers or students consolidates their knowledge of the subjects and acquires ease and confidence to face similar problems at this level. It is also very useful as a reference or as a compilation of exercises to use in a class, both by the students and the teachers.It includes 400 exercises with its approaches, data, schemes, diagrams and detailed solutions, step by step and with enough explanations for the adequate follow-up by the readers or students.The exercises are introduced as the course progresses, reiterating various examples of the same subject and with incremental complexity. These exercises are completed with dozens of other similar exercises and without detailed solution, so that the student exercises the theory received in the classroom.Finally, dozens of exercises are also included in real exams in the aforementioned Colleges. All the exercises are grouped by subjects related to the Non-Relativistic Classical Physics of the 1st University Courses: Vector Calculation, Fields, Classical Mechanics, Wave Movement, Central Forces, Gravitation, Elasticity, Fluids, Thermometry, Calorimetry, Thermodynamics, Electric and Magnetic Field, Continuous and Alternating Current, etc.More information at: gregochenlo.blogspot.com
A Guide to Problems in Modern Electrochemistry 1-Maria E. Gamboa-Aldeco 2011-06-27 It has been always an incentive for students to find whether his/her efforts to solve exercises give correct results, or to find tips for problems that he/she finds more difficult. These are the main reasons for the appearance of the present book. As part of the textbook Modern Electrochemistry 1: Ionics, A Guide to Problems in Modern Electrochemistry: Part 1: Ionics compiles many of the solutions to the exercises and problems presented in the text, as well as many new problems.
Beginning Software Engineering-Rod Stephens 2015-03-02 A complete introduction to building robust and reliable software Beginning Software Engineering demystifies the software engineering methodologies and techniques that professional developers use to design and build robust, efficient, and consistently reliable software. Free of jargon and assuming no previous programming, development, or management experience, this accessible guide explains important concepts and techniques that can be applied to any programming language. Each chapter ends with exercises that let you test your understanding and help you elaborate on the chapter's main concepts. Everything you need to understand waterfall, Sashimi, agile, RAD, Scrum, Kanban, Extreme Programming, and many other development models is inside! Describes in plain English what software engineering is Explains the roles and responsibilities of team members working on a software engineering project Outlines key phases that any software engineering effort must handle to produce applications that are powerful and dependable Details the most popular software development methodologies and explains the different ways they handle critical development tasks Incorporates exercises that expand upon each chapter's main ideas Includes an extensive glossary of software engineering terms
Python Crash Course-Eric Matthes 2015-11-01 Python Crash Course is a fast-paced, thorough introduction to Python that will have you writing programs, solving problems, and making things that work in no time. In the first half of the book, you’ll learn about basic programming concepts, such as lists, dictionaries, classes, and loops, and practice writing clean and readable code with exercises for each topic. You’ll also learn how to make your programs interactive and how to test your code safely before adding it to a project. In the second half of the book, you’ll put your new knowledge into practice with three substantial projects: a Space Invaders–inspired arcade game, data visualizations with Python’s super-handy libraries, and a simple web app you can deploy online. As you work through Python Crash Course you’ll learn how to: –Use powerful Python libraries and tools, including matplotlib, NumPy, and Pygal –Make 2D games that respond to keypresses and mouse clicks, and that grow more difficult as the game progresses –Work with data to generate interactive visualizations –Create and customize Web apps and deploy them safely online –Deal with mistakes and errors so you can solve your own programming problems If you’ve been thinking seriously about digging into programming, Python Crash Course will get you up to speed and have you writing real programs fast. Why wait any longer? Start your engines and code! Uses Python 2 and 3
Notes, Problems and Laboratory Exercises in Mechanics-Halsey Dunwoody 1917
Assignment Manual of Algebra-Charles Henry Sampson 1917

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