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Selected Problems in Physical Chemistry Problem-Solving and Selected Topics in Number Theory
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Public Policy of Contemporary Polish Society Springer Handbook of Engineering Statistics The New York
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Selected Studies, Physics-astronomy, Mathematics, History of Science Selected Papers, CWI-IMACS
Symposia on Parallel Scientific Computing Selected Papers on Multiple Imaging and Beam Generation A
Course on Plasticity Theory Nonlinear Diffusion Problems Nagoya Mathematical Journal Acta Physiologica
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Selected Problems in Physical Chemistry

2010-06-17

the latest authors like the most ancient strove to subordinate the phenomena of nature to the laws of mathematics isaac newton 1647 1727 the approach quoted above has been adopted and practiced by many teachers of chemistry today physical chemistry textbooks are written for science and engineering majors who possess an interest in and aptitude for mathematics no knowledge of chemistry or biology not to mention poetry is required to me this sounds like a well de ned prescription for limiting the readership to a few and carefully selected i think the importance of physical chemistry goes beyond this precept the s ject should bene t both the science and engineering majors and those of us who dare to ask questions about the world around us numerical mathematics or a way of thinking in mathematical formulas and numbers which we all practice when paying in cash or doing our tax forms is important but should not be used to subordinate the in nitely rich world of physical chemistry

Problem-Solving and Selected Topics in Number Theory

2010-12-02

the book provides a self contained introduction to classical number theory all the proofs of the individual theorems and the solutions of the exercises are being presented step by step some historical remarks are also presented the book will be directed to advanced undergraduate beginning graduate students as well as to students who prepare for mathematical competitions ex mathematical olympiads and putnam mathematical competition

Inequalities

2012-01-06

this work is about inequalities which play an important role in mathematical olympiads it contains 175 solved problems in the form of exercises and in addition 310 solved problems the book also covers the theoretical background of the most important theorems and techniques required for solving inequalities it is written for all middle and high school students as well as for graduate and undergraduate students school teachers and trainers for mathematical competitions will also gain benefit from this book

Statistical Decision Problems

2013-12-16

statistical decision problems presents a quick and concise introduction into the theory of risk deviation and error measures that play a key role in statistical decision problems it introduces state of the art practical decision making through twenty one case studies from real life applications the case studies cover a broad area of topics and the authors include links with source code and data a very helpful tool for the reader in its core the text demonstrates how to use different factors to formulate statistical decision problems arising in various risk management applications such as optimal hedging portfolio optimization cash flow matching classification and more the presentation is organized into three parts selected concepts of statistical decision theory statistical decision problems and case studies with portfolio safeguard the text is primarily aimed at practitioners in the areas of risk management decision making and statistics however the inclusion of a fair bit of mathematical rigor renders this monograph an excellent introduction to the theory of general error deviation and risk measures for graduate students it can be used as supplementary reading for graduate courses including statistical analysis data mining stochastic programming financial engineering to name a few the high level of detail may serve useful to applied mathematicians engineers and statisticians interested in modeling and managing risk in various applications

Selected Problems of Fractional Systems Theory

2011-05-10

this monograph covers some selected problems of positive fractional 1d and 2d linear systems it is an extended and modified english version of its preceding polish edition published by technical university of bialystok in 2009 this book is based on the lectures delivered by the author to the ph d students of the

faculty of electrical engineering of bialystok university of technology and of warsaw university of technology and on invited lectures in several foreign universities in the last three years

Selected Works

2010-12-30

springer verlag has invited me to bring out my selected works being aware that springer verlag enjoys high esteem in the scientific world as a reputed publisher i have willingly accepted the offer immediately i was faced with two problems the first was that of acquainting the reader with the important stages in my scientific activities for this purpose i have included in the selected works certain of my early works that have greatly influenced my later studies for the same reason i have also included in the book those works that contain the first crude versions of the proofs for many of my basic theorems the second problem was that of giving the reader the best possible opportunity to familiarize himself with the most important results and to learn to use my method for this reason i have included the later improved versions of the proofs for my basic results as well as the monographs the method of trigonometric sums in number theory second edition and special variants of the method of trigonometric sums

Springer Handbook of Robotics

2016-07-27

the second edition of this handbook provides a state of the art overview on the various aspects in the rapidly developing field of robotics reaching for the human frontier robotics is vigorously engaged in the growing challenges of new emerging domains interacting exploring and working with humans the new generation of robots will increasingly touch people and their lives the credible prospect of practical robots among humans is the result of the scientific endeavour of a half a century of robotic developments that established robotics as a modern scientific discipline the ongoing vibrant expansion and strong growth of the field during the last decade has fueled this second edition of the springer handbook of robotics the first edition of the handbook soon became a landmark in robotics publishing and won the american association of publishers prose award for excellence in physical sciences mathematics as well as the organization's award for engineering technology the second edition of the handbook edited by two internationally renowned scientists with the support of an outstanding team of seven part editors and more than 200 authors continues to be an authoritative reference for robotics researchers newcomers to the field and scholars from related disciplines the contents have been restructured to achieve four main objectives the enlargement of foundational topics for robotics the enlightenment of design of various types of robotic systems the extension of the treatment on robots moving in the environment and the enrichment of advanced robotics applications further to an extensive update fifteen new chapters have been introduced on emerging topics and a new generation of authors have joined the handbook's team a novel addition to the second edition is a comprehensive collection of multimedia references to more than 700 videos which bring valuable insight into the contents the videos can be viewed directly augmented into the text with a smartphone or tablet using a unique and specially designed app springer handbook of robotics multimedia extension portal handbookofrobotics.org

Springer Handbook of Bio-/Neuro-Informatics

2013-11-30

the springer handbook of bio neuro informatics is the first published book in one volume that explains together the basics and the state of the art of two major science disciplines in their interaction and mutual relationship namely information sciences bioinformatics and neuroinformatics bioinformatics is the area of science which is concerned with the information processes in biology and the development and applications of methods tools and systems for storing and processing of biological information thus facilitating new knowledge discovery neuroinformatics is the area of science which is concerned with the information processes in biology and the development and applications of methods tools and systems for storing and processing of biological information thus facilitating new knowledge discovery the text contains 62 chapters organized in 12 parts 6 of them covering topics from information science and bioinformatics and 6 cover topics from information science and neuroinformatics each chapter consists of three main sections introduction to the subject area presentation of methods and advanced and future developments the springer handbook of bio neuroinformatics can be used as both a textbook and as a reference for postgraduate study and advanced research in these areas the target audience includes students scientists and practitioners from the areas of information biological and neurosciences with

forewords by shun ichi amari of the brain science institute riken saitama and karlheinze meier of the university of heidelberg kirchhoff institute of physics and co director of the human brain project

Designing and Implementing Public Policy of Contemporary Polish Society

2021-11-15

the process of creating and implementing sectoral policy has been described from two perspectives on the one hand the attention of the contributors focuses mainly on the social actors of these policy individuals and institutions on whose activity the process of implementing specific policy provisions depends on the other hand the complexity of sectoral policy forces the need to refer to many areas of social life around which specific solutions are created the effectiveness of public policy including sectoral policy also requires indicating the context related to the socio political conditions in poland to understand why different public policies emerge in different regions it is important to understand the details that shape them in this volume it is crucial to indicate the determinants of the process of creating and implementing policy relating to selected aspects of socio economic life de facto sectoral policy in polish society

Springer Handbook of Engineering Statistics

2006

in today s global and highly competitive environment continuous improvement in the processes and products of any field of engineering is essential for survival this book gathers together the full range of statistical techniques required by engineers from all fields it will assist them to gain sensible statistical feedback on how their processes or products are functioning and to give them realistic predictions of how these could be improved the handbook will be essential reading for all engineers and engineering connected managers who are serious about keeping their methods and products at the cutting edge of quality and competitiveness

The New York City Contest Problem Book

1986

reproducible problems from the 1975 1984 new york city interscholastic mathematics league addressing diophantine equations polynomials exponents logarithms complex numbers motion problems pythagorean theorem combinatorics sines and cosines and more answers solutions appendixes and bibliography

Books in Series

1985

vols for 1980 issued in three parts series authors and titles

Proceedings of China SAE Congress 2021: Selected Papers

2022-10-22

these proceedings gather outstanding papers presented at the china sae congress 2021 held on oct 19 21 shanghai china featuring contributions mainly from china the biggest carmaker as well as most dynamic car market in the world the book covers a wide range of automotive related topics and the latest technical advances in the industry many of the approaches in the book will help technicians to solve practical problems that affect their daily work in addition the book offers valuable technical support to engineers researchers and postgraduate students in the field of automotive engineering

Selected Studies, Physics-astrophysics, Mathematics, History

of Science

1982

this is a study of multiple imaging and beam generation it contains 74 papers which address issues related to the subject

Selected Papers, CWI-IMACS Symposia on Parallel Scientific Computing

1991

plasticity theory is characterized by many competing and often incompatible points of view this book seeks to strengthen the foundations of continuum plasticity theory emphasizing a unifying perspective grounded in the fundamental notion of material symmetry steigmann s book offers a systematic framework for the proper understanding of established models of plasticity and for their modern extensions and generalizations particular emphasis is placed on the differential geometric aspects of the subject and their role in illuminating the conceptual foundations of plasticity theory classical models together with several subjects of interest in contemporary research are developed in a unified format the book is addressed to graduate students and academics working in the field of continuum mechanics

Selected Papers on Multiple Imaging and Beam Generation

1998

issue for mar 1970 dedicated to professor katuzi ono on his 60th birthday with portrait sketch of his life and list of mathematical papers

A Course on Plasticity Theory

2023-01-20

this book constitutes the thoroughly refereed post proceedings of the 9th international workshop on approximation and online algorithms waoa 2011 held in saarbrücken germany in september 2011 the 21 papers presented were carefully reviewed and selected from 48 submissions the volume also contains an extended abstract of the invited talk of prof klaus jansen the workshop on approximation and online algorithms focuses on the design and analysis of algorithms for online and computationally hard problems both kinds of problems have a large number of applications in a wide variety of fields topics of interest for waoa 2011 were algorithmic game theory approximation classes coloring and partitioning competitive analysis computational finance cuts and connectivity geometric problems inapproximability results mechanism design network design packing and covering paradigms for design and analysis of approximation and online algorithms parameterized complexity randomization techniques and scheduling problems

Nonlinear Diffusion Problems

1986

this volume contains papers on formal system specification the chapters treat algebraic specification temporal logic specification default specifications and deontic logic specification applications include information systems distributed systems and real time systems one of the major themes in the book is the motivation to bring formal specification techniques one step further towards realistic applications

Nagoya Mathematical Journal

1982

the handbook of graph theory is the most comprehensive single source guide to graph theory ever published best selling authors jonathan gross and jay yellen assembled an outstanding team of experts to contribute overviews of more than 50 of the most significant topics in graph theory including those related to algorithmic and optimization approach

Acta Physiologica Hungarica

1985

includes entries for maps and atlases

Subject Guide to Books in Print

1997

differential equations with impulses arise as models of many evolving processes that are subject to abrupt changes such as shocks harvesting and natural disasters these phenomena involve short term perturbations from continuous and smooth dynamics whose duration is negligible in comparison with the duration of an entire evolution in models involving such perturbations it is natural to assume these perturbations act instantaneously or in the form of impulses as a consequence impulsive differential equations have been developed in modeling impulsive problems in physics population dynamics ecology biotechnology industrial robotics pharmacokinetics optimal control and so forth there are also many different studies in biology and medicine for which impulsive differential equations provide good models during the last 10 years the authors have been responsible for extensive contributions to the literature on impulsive differential inclusions via fixed point methods this book is motivated by that research as the authors endeavor to bring under one cover much of those results along with results by other researchers either affecting or affected by the authors work the questions of existence and stability of solutions for different classes of initial value problems for impulsive differential equations and inclusions with fixed and variable moments are considered in detail attention is also given to boundary value problems in addition since differential equations can be viewed as special cases of differential inclusions significant attention is also given to relative questions concerning differential equations this monograph addresses a variety of side issues that arise from its simpler beginnings as well

Selected References on Cardiovascular Disease

1956

International Books in Print

1998

Mathematics of the USSR.

1990

Approximation and Online Algorithms

2012-03-26

Annual Proceedings of Selected Research and Development Presentations at the ... Convention of the Association for Educational Communications and Technology

2006

Russian Journal of Marine Biology

1962

Space Scientists and Engineers: Selected Biographical and Bibliographical Listing

1995-06-09

Information Systems-correctness And Reusability - Selected Papers Form The Is-core Workshop

1981

The German Journal of Psychology

1984

Scientific and Technical Books and Serials in Print

1976

INIS Atomindeks

2003-12-29

Handbook of Graph Theory

1991

Selected Water Resources Abstracts

1974

Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office

1991

Paperbound Books in Print

1979

Selected Papers on Geometry

1979

Selected Papers on Geometry

1978

National Union Catalog

2013-07-31

Impulsive Differential Inclusions

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