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KEY=TOPICS - SHARP ANDREW

Selected Topics in Manufacturing AITeM Young Researcher Award 2019

Springer Nature This book presents selected contributions on a wide range of scientific and technological areas covered by AITeM (the Italian Association of Manufacturing). It discusses the following topics: additive manufacturing, advanced and unconventional machining and processes, material removal processes, foundry and forming, tools and machine tools, assembly/disassembly, joining materials and material properties, quality metrology and material testing, manufacturing systems engineering, sustainable manufacturing, smart manufacturing and cyber-physical systems, education in manufacturing and human factors, industrial applications. Written by young AITeM associates, the contributions reflect the multifaceted nature of the research in manufacturing, which takes advantage of emergent technologies and establishes interdisciplinary connections with various scientific and technological areas to move beyond simple product fabrication and develop a complex and highly interconnected value creation processes ecosystem pursuing high-value-added products to compete globally.

Selected Topics in Inorganic Chemistry

S. Chand Publishing Selected Topics in Inorganic Chemistry is a comprehensive textbook discussing theoretical aspects of Inorganic Chemistry. Uniqueness of the book lies in treatment of all fundamental concepts, such as, Structure of Atom, Chemical Bonding, Inner Transition Elements and Coordination Chemistry, with a

modern approach. Illustration of text with relevant line diagrams and tabular presentation of data makes understanding of concepts lucid and simple. The book is designed for B.Sc. (Honours) and M.Sc. students.

Aerodynamics

Selected Topics in the Light of Their Historical Development

Courier Corporation Charming, reader-friendly chronicle by a famous pioneer in aerodynamic research traces the development of dynamic flight from the time of Newton through the 20th century. It recounts struggles of engineers and physicists with problems associated with lift, drag, stability, aeroelasticity, and the sound barrier. 72 figures. 1957 edition.

Selected Topics in Gauge Theories

Springer Verlag

Selected Topics in WiMAX

BoD – Books on Demand In June 2001, operators and equipment vendors in the communications ecosystem founded the nonprofit WiMAX Forum, an industry-led organization aimed at harmonizing broadband wireless access standards. Nowadays, about 10 years later, the WiMAX technology is a mature and affordable solution for high-speed IP-based 4G mobile broadband, fully supporting bandwidth-intensive services,such as high-speed Internet access and television, as well as less bandwidth-demanding but more latency-sensitive services, such as voice-over-IP calls. In this book a collection of selected papers is presented, which covers several aspects of the WiMAX technology, with particular reference to multiuser multiple input multiple output diversity techniques,peak-to-average power ratio, mesh architectures, handover mechanisms, coordinated authentication in a heterogeneous network environment and multicast /broadcast re-keying algorithms.

Quantum Mechanics

Selected Topics

World Scientific It can serve as a good supplement to any quantum mechanics textbook, filling the gap between standard textbooks and higher-level books on the one hand and journal articles on the other. This book provides a detailed treatment of the scattering theory, multidimensional quasi-classical approximation, non-stationary problems for oscillators and the theory of unstable particles. It will be useful for postgraduate students and researchers who wish to find new, interesting

information hidden in the depths of non-relativistic quantum mechanics. Contents: Discrete SpectrumContinuous SpectrumAnalytic Properties of Wave FunctionInverse Scattering ProblemThe Green Functions and Perturbation TheoryQuasi-classical ApproximationExact Solutions of Non-stationary Problems for OscillatorQuasi-stationary StatesAppendices:Specific Cases of the Schrödinger Equation SpectrumQuasi-classical Properties of Highly Excited Levels in the Coulomb Field Readership: Undergraduates, academics and researchers in physics. Keywords:Accidental Degeneracy;Bertrand Theorem;Coherent State;Coulomb Potential;Green Function;Inverse Scattering Problem;Isospectral Deformation;Perturbation Theory;Reflectionless Potential;Quantum Mechanics;Quasi-Classical Approximation;Quasi-Stationary State

Selected Topics in DNA Repair

BoD – Books on Demand This book is intended for students and scientists working in the field of DNA repair, focusing on a number of topics ranging from DNA damaging agents and mechanistic insights to methods in DNA repair and insights into therapeutic strategies. These topics demonstrate how scientific ideas are developed, tested, dialogued, and matured as it is meant to discuss key concepts in DNA repair. The book should serve as a supplementary text in courses and seminars as well as a general reference for biologists with an interest in DNA repair.

Selected Topics on Hydrogen Fuel

Selected Topics in Image Science

Springer Science & Business Media The continuing growth of computed tomography (CT) and other imaging techniques motivated us to bring together a comprehensive review of the state of the art in diagnostic imaging. Twelve years after the first appearance of x-ray CT, computerized diagnostic imaging has grown so rapidly in sophistication that it is difficult to follow current developments in this diversified field. In this book, we have attempted to cover the basic developments in several areas. The first part includes some of the fundamental aspects of computerized diagnostic imaging such as algorithms and detectors. Specific applications in emission tomography, digital radiography, ultrasound and nuclear magnetic resonance imaging are dealt with in the secondpart. The contributed papers are by experts currently in the field, whom we feel would certainly enlighten the subject matter and possibly suggest directions for future development. We would like to express our sincere thanks to those who have contributed to this volume. We are sure that their original papers will be beneficial for readers and will also remain as an important reference for researchers in the years to come. We would also like to thank Betty Trent for her expert and patient typing of the entire book. Finally, special thanks are due to Mrs. Ingeborg Mayer of Springer-Verlag for her encouragements, support and patience throughout the preparation of this book.

Selected Topics in Almost Periodicity

Walter de Gruyter GmbH & Co KG Covers uniformly recurrent solutions and c-almost periodic solutions of abstract Volterra integro-differential equations as well as various generalizations of almost periodic functions in Lebesgue spaces with variable coefficients. Treats multi-dimensional almost periodic type functions and their generalizations in adequate detail.

Selected Topics in Performance Evaluation and Benchmarking

4th TPC Technology Conference, TPCTC 2012, Istanbul, Turkey, August 27, 2012, Revised Selected Papers

Springer This book constitutes the refereed proceedings of the 4th TPC Technology Conference, TPCTC 2012, held in Istanbul, Turkey, in August 2012. It contains 10 selected peer-reviewed papers, 2 invited talks, a report from the TPC Public Relations Committee, and a report from the workshop on Big Data Benchmarking, WBDB 2012. The papers present novel ideas and methodologies in performance evaluation, measurement, and characterization.

Selected Topics in Nonlinear Wave Mechanics

Springer Science & Business Media This book gives an overview ofthe current state of nonlinear wave mechanics with emphasis on strong discontinuities (shock waves) and localized self preserving shapes (solitons) in both elastic and fluid media. The exposition is intentionallyat a detailed mathematical and physical level, our expectation being that the reader will enjoy coming to grips in a concrete manner with advances in this fascinating subject. Historically, modern research in nonlinear wave mechanics began with the famous 1858 piston problem paper of Riemann on shock waves and con tinued into the early part of the last century with the work of Hadamard, Rankine, and Hugoniot. After WWII, research into nonlinear propagation

of dispersive waves rapidly accelerated with the advent of computers. Works of particular importance in the immediate post-war years include those of von Neumann, Fermi, and Lax. Later, additional contributions were made by Lighthill, Glimm, Strauss, Wendroff, and Bishop. Dispersion alone leads to shock fronts of the propagating waves. That the nonlinearity can com pensate for the dispersion, leading to propagation with a stable wave having constant velocity and shape (solitons) came as a surprise. A solitary wave was first discussed by J. Scott Russell in 1845 in "Report of British Asso ciations for the Advancement of Science. " He had, while horseback riding, observed a solitary wave travelling along a water channel and followed its unbroken progress for over a mile.

Selected Topics in Geometry with Classical vs. Computer Proving

World Scientific Publishing Company This textbook presents various automatic techniques based on Gröbner bases elimination to prove well-known geometrical theorems and formulas. Besides proving theorems, these methods are used to discover new formulas, solve geometric inequalities, and construct objects — which cannot be easily done with a ruler and compass. Each problem is firstly solved by an automatic theorem proving method. Secondly, problems are solved classically — without using computer where possible — so that readers can compare the strengths and weaknesses of both approaches.

Selected Topics in Information and Coding Theory

World Scientific The last few years have witnessed rapid advancements in information and coding theory research and applications. This book provides a comprehensive guide to selected topics, both ongoing and emerging, in information and coding theory. Consisting of contributions from well-known and high-profile researchers in their respective specialties, topics that are covered include source coding; channel capacity; linear complexity; code construction, existence and analysis; bounds on codes and designs; space-time coding; LDPC codes; and codes and cryptography.All of the chapters are integrated in a manner that renders the book as a supplementary reference volume or textbook for use in both undergraduate and graduate courses on information and coding theory. As such, it will be a valuable text for students at both undergraduate and graduate levels as well as instructors, researchers, engineers, and practitioners in these fields.Supporting Powerpoint Slides are available upon request for all instructors who adopt this book as a course text.

Selected Topics in Robotics for Space Exploration

Selected Topics Connected with the Laws of Warfare as of August 1, 1914

Selected topics on nonparametric conditional quantiles and risk theory

Rozenberg Publishers

Selected Topics on Continuous-time Controlled Markov Chains and Markov Games

World Scientific This book concerns continuous-time controlled Markov chains, also known as continuous-time Markov decision processes. They form a class of stochastic control problems in which a single decision-maker wishes to optimize a given objective function. This book is also concerned with Markov games, where two decision-makers (or players) try to optimize their own objective function. Both decision-making processes appear in a large number of applications in economics, operations research, engineering, and computer science, among other areas. An extensive, self-contained, up-to-date analysis of basic optimality criteria (such as discounted and average reward), and advanced optimality criteria (e.g., bias, overtaking, sensitive discount, and Blackwell optimality) is presented. A particular emphasis is made on the application of the results herein: algorithmic and computational issues are discussed, and applications to population models and epidemic processes are shown. This book is addressed to students and researchers in the fields of stochastic control and stochastic games. Moreover, it could be of interest also to undergraduate and beginning graduate students because the reader is not supposed to have a high mathematical background: a working knowledge of calculus, linear algebra, probability, and continuous-time Markov chains should

suffice to understand the contents of the book.

Lectures on Selected Topics in Mathematical Physics

Elliptic Functions and Elliptic Integrals

Morgan & Claypool Publishers This volume is a basic introduction to certain aspects of elliptic functions and elliptic integrals. Primarily, the elliptic functions stand out as closed solutions to a class of physical and geometrical problems giving rise to nonlinear differential equations. While these nonlinear equations may not be the types of greatest interest currently, the fact that they are solvable exactly in terms of functions about which much is known makes up for this. The elliptic functions of Jacobi, or equivalently the Weierstrass elliptic functions, inhabit the literature on current problems in condensed matter and statistical physics, on solitons and conformal representations, and all sorts of famous problems in classical mechanics. The lectures on elliptic functions have evolved as part of the first semester of a course on theoretical and mathematical methods given to first and second year graduate students in physics and chemistry at the University of North Dakota. They are for graduate students or for researchers who want an elementary introduction to the subject that nevertheless leaves them with enough of the details to address real problems. The style is supposed to be informal. The intention is to introduce the subject as a moderate extension of ordinary trigonometry in which the reference circle is replaced by an ellipse. This entre depends upon fewer tools and has seemed less intimidating that other typical introductions to the subject that depend on some knowledge of complex variables. The first three lectures assume only calculus, including the chain rule and elementary knowledge of differential equations. In the later lectures, the complex analytic properties are introduced naturally so that a more complete study becomes possible.

Selected Topics on Data Analysis in Astronomy

World Scientific The main topics covered by the book regard the new developments of the methods and computer architectures in the field of Data Analysis in Astronomy and Astrophysics. The materials presented here is comprehensive and of interest to both experts in data analysis and students of an high degree course. The text is derived from lectures given during the tutorial sessions of the workshop on Data Analysis in Astronomy held at the Ettore Majorana Centre in Erice. Contents:Information in Astrophysics (V Castellani)Imaging in Radio Astronomy (L

Feretti & M Vigotti)An Introduction to X-Ray Astronomy Data Analysis (M Morini)Computational Methods (P Grosbol)Evolution of Architectures for Data Processing (V Cantoni)Hardware for Graphics and Image Display (I De Lotto & M Savini)Data Analysis Systems (D Wells)Crystal Gazing V. Computer System Technology Projections (D Wells) Readership: Astronomists and atomic physicists.

DENG Xiao-ping's Practice, Topic 8 of the selected topics from The Revival of China

Mao Min This is Selected topic 8 of the book entitled "The Revival of China". The full book is about the revival of China in the 20th century and the first decade of the 21st century. This topic is about the practice of DENG Xiao-ping in pushing for Reform and Opening Up while at the same time insisting the Four Cardinal Principles. It also records how JIANG Ze-min and HU Jing-tao followed DENG's route in the development of China, and made China became, in the year of 2010, the second largest economy in the world and preliminary revival of China.

Banach Spaces and Descriptive Set Theory: Selected Topics

Springer Science & Business Media This volume deals with problems in the structure theory of separable infinite-dimensional Banach spaces, with a central focus on universality problems. This topic goes back to the beginnings of the field and appears in Banach's classical monograph. The novelty of the approach lies in the fact that the answers to a number of basic questions are based on techniques from Descriptive Set Theory. Although the book is oriented on proofs of several structural theorems, in the main text readers will also find a detailed exposition of numerous "intermediate" results which are interesting in their own right and have proven to be useful in other areas of Functional Analysis. Moreover, several well-known results in the geometry of Banach spaces are presented from a modern perspective.

Selected Topics in Algebraic Geometry - II.

Supplemental Report of the

Committee on Rational Transformations

Selected Topics in Convex Geometry

Springer Science & Business Media Examines in detail those topics in convex geometry that are concerned with Euclidean space Enriched by numerous examples, illustrations, and exercises, with a good bibliography and index Requires only a basic knowledge of geometry, linear algebra, analysis, topology, and measure theory Can be used for graduates courses or seminars in convex geometry, geometric and convex combinatorics, and convex analysis and optimization

Selected Topics in Applied Quantum Electrodynamics

Selected Topics on Condensed Matter Physics

Literature Reviews of Selected Topics in Comparative Gastroenterology

Series of Monographs on Selected Topics in Solid State Physics

Principles and Techniques of

Human Research and Therapeutics, Selected Topics

Blackwell/Futura

Selected Topics in the Classical Theory of Functions of a Complex Variable

Selected Topics in Mass Spectrometry in the Biomolecular Sciences

Springer Many fundamental aspects of the methods used in mass spectrometry are here presented by outstanding scientists, with reference to very recent developments. The principles and applications of electrospray, ion spray and MALDI ionization technique are presented, together with optimised GC/MS interfacing systems and tools for quantitative analysis. A comprehensive treatment of modern instrumentation for mass analysis and detection is also included. The major part of the book deals with bioanalytical applications to peptides, proteins, oligonucleotides, polysaccharides, lipids and plant metabolites. Several papers are devoted to the evaluation of adduct formation between DNA and carcinogens. Environmental applications are also included, with examples of some specific cases. Fundamentals and applications are treated with the same degree of depth: the first two parts of the book therefore provide a basis for the understanding of the biomolecular applications section. Audience: Ideal for advanced graduate students of chemistry who have learned some basic mass spectrometry. Also useful for Ph.D. students in chemistry, biology and medicine. Of value to researchers in academic and industrial laboratories.

Soil Physics

Selected Topics

Elsevier Soil Physics: Selected Topics covers the results in the research field of soil physics, soil mechanics, and the behavior of real soils. This book is divided into six chapters and begins with an introduction to the study of the physical characteristics

of soil and the complexity of superstructure of soil mechanics. The next chapter deals with the distribution of coarse grains according to their volume and the distribution of pore sizes in fine-grained materials. This chapter also describes the properties of granular mixtures and the compatibility of transition soils. The discussion then shifts to investigation of soil strength, particularly the strength of sand and transition soils, the tensile and shear strengths of cohesive soils, and brittle failure of soils. The remaining chapters consider the classification of soil phase movement phenomena. This book is intended primarily for practicing civil engineers.

Selected Topics on Antenna Synthesis

The Unity of Mathematical Formalisms and Technical Sense

Cambridge Scholars Publishing This volume provides instrumentation and tools that are essential in developing antennas with desired characteristics. In parallel to studying the problems of antennas synthesis and the methodologies used in solving them, it encourages the reader to train and strengthen the engineering style of thinking, which is of great importance for any technical developer. The book moves away from mere repetition of the classical issues of antenna synthesis, and instead puts emphasis on synthesizing a desired amplitude radiation pattern and on optimization of the antenna's phase pattern that allows for the elimination of the shadowing effect by a body close to the antenna, in particular.

Selected Topics in Nuclear Theory

Lectures Given at the International Summer School on Selected Topics in Nuclear Theory, in the Low Tatra Mountains, 20 August-8 September 1962

Universal Algebra

Fundamentals and Selected Topics

CRC Press Starting with the most basic notions, Universal Algebra: Fundamentals and Selected Topics introduces all the key elements needed to read and understand current research in this field. Based on the author's two-semester course, the text prepares students for research work by providing a solid grounding in the fundamental constructions and concepts of universal algebra and by introducing a variety of recent research topics. The first part of the book focuses on core components, including subalgebras, congruences, lattices, direct and subdirect products, isomorphism theorems, a clone of operations, terms, free algebras, Birkhoff's theorem, and standard Maltsev conditions. The second part covers topics that demonstrate the power and breadth of the subject. The author discusses the consequences of Jónsson's lemma, finitely and nonfinitely based algebras, definable principal congruences, and the work of Foster and Pixley on primal and quasiprimal algebras. He also includes a proof of Murskiĭ's theorem on primal algebras and presents McKenzie's characterization of directly representable varieties, which clearly shows the power of the universal algebraic toolbox. The last chapter covers the rudiments of tame congruence theory. Throughout the text, a series of examples illustrates concepts as they are introduced and helps students understand how universal algebra sheds light on topics they have already studied, such as Abelian groups and commutative rings. Suitable for newcomers to the field, the book also includes carefully selected exercises that reinforce the concepts and push students to a deeper understanding of the theorems and techniques.

Selected Topics in Power, RF, and Mixed-Signal ICs

River Publishers Selected Topic in Power, RF, and Mixed-Signal ICs provides a practical overview and state-of-the-art advancements on several selected topics in the areas of power, RF, and mixed-signal integrated circuits and systems

Selected Topics in Dynamics and Control of Chemical and Biological Processes

Springer This book presents both basic and advanced concepts and techniques for the monitoring and control of chemical and biochemical processes. It also covers aspects of the implementation of these different robust techniques. The book offers

a balanced view of the theoretical and practical issues of control systems and provides different cases to illustrate the controller and observer design procedures and their dynamic effects in the closed-loop.

Soil Mechanics

Selected Topics

Selected Topics in RF, Analog and Mixed Signal Circuits and Systems

River Publishers Series in Cir The book provides an overview on selected topics in RF, analog and mixed signal circuits & systems. Topics include ADC conversion and equalization for high-speed links, clock and data recovery for high speed wireline transmission, signal generation for terahertz application, oscillator phase noise fundamentals and analog/digital PLL overview

Selected Topics in Preventive Cardiology

Springer The aim of the 2nd Course of the International School of Cardi ology at "Ettore Majorana" was the discussion, scientific analysis, and critical appraisal of primary and secondary prevention in cardi ology, especially concerning the coronary artery disease. The predictive value of different risk factors, the problem of heredity, sociological and psychological perspectives, the impact of antiarrhythmic therapy, and the prevention of sudden death were only some of the many topics discussed. Others, such as physical activity in primary and secondary prevention, the role of coronary bypass surgery in decreasing the mortality rate, the effects of drugs and comprehensive intervention programmes, as well as a critical appraisal of therapy in cardiac failure were given special attention. In organizing this second Course, it was again a privilege and a challenge for the programme directors to conduct a scientific event which, as was demonstrated at the first course, represented an original and new approach to teaching. The illustrious international faculty, composed of well known scientists and experts in their fields, has contributed to the high academic level and quality of the lectures and the following discussions. In our opinion, this successful undertaking would not have achieved its purpose and originality without the beautiful surround ing scenery and tranquility of Erice. We should like to express our gratitude to the director of the Centre, Prof. Zichichi, and the Secretary of "Ettore Majorana," Dr.