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Materials Science and Fuel Technologies of Uranium and Plutonium Mixed Oxide - Masato Kato 2022-10-17
Materials Science and Fuel Technologies of Uranium and Plutonium Mixed Oxide offers a deep understanding of MOX properties for nuclear fuels that will be useful for performance evaluation. It also reviews fuel property simulation technology and an irradiation behavior model required for performance evaluation. Based on research findings, the book investigates various physical property data in order to develop MOX fuel for sodium-cooled fast reactors. It discusses a database of MOX properties, including oxygen potential, melting temperature, the lattice parameter, sound speeds, thermal expansion, thermal diffusivity, oxygen self-diffusion, and chemical diffusion coefficients, that was used to derive a science-based model of MOX properties (Sci-M Pro) for fuel-performance code development. Features: Concisely covers the essential aspects of MOX nuclear fuels. Explores MOX nuclear fuels by systematically evaluating various physical property values using a behavior model. Presents fuel property simulation technology. Considers oxygen potential, the lattice parameter, sound speeds, and oxygen self-diffusion. Discusses melting temperature, thermal expansion, thermal diffusivity, and chemical diffusion coefficients. The book will be useful for researchers and engineers working in the field of nuclear fuels and nuclear materials.
Physics Briefs - 1993

Concept S Dictionary Of Agricultural Sciences - I. C. Gupta 1992

Emerging Communication Technologies Based on Wireless Sensor Networks - Mubashir Husain Rehmani 2016-04-05
Emerging Communication Technologies Based on Wireless Sensor Networks: Current Research and Future Applications fills a gap in the existing literature by combining a plethora of WSN-based emerging technologies into a single source so that researchers can form opinions regarding these technologies. It presents different types of emerging communication technologies based on WSNs and describes how wireless sensor networks can be integrated with other communication technologies. It covers many of the new techniques and demonstrates the application of WSNs. The book’s 14 chapters are divided into four parts. The first part covers the basics of wireless sensor networks and their principal working methods. The authors then move on to discuss different types of WSNs, characteristics of different types of emerging technologies based on WSNs, renewable energy sources, battery replenishment strategies, and application-specific energy challenges of

WSNs. The second part is dedicated to issues related to wireless body area networks (WBANs). It discusses wearable WSNs and their applications, standards, and research trends. The authors also discuss routing schemes devised for WBANs and thermal-aware routing protocols for WBANs. The third part focuses on different emerging communication technologies based on WSNs, including electromagnetic wireless nanosensor networks, WSNs in the IoT, management of WSNs through satellite networks, WSNs in smart homes, and cognitive radio technology in conjunction with WSNs. The last part of the book covers topics generally related to typical WSNs, including energy-efficient data collection in WSNs, key distribution mechanisms in WSNs, distributed data gathering algorithms for mobile WSNs, and finally, a novel mobility scheme for WSNs that supports IPv6.

Engineering Mathematics - II -

Krishna's Industrial Economics & Principles of Management -

Solid State Physics - R. Mukhopadhyay 1999

A Biweekly Cryogenics Current Awareness Service - 1978

Indian Science Abstracts - 2011-10

Krishna's Professional Communication -

Engineering Mathematics - A. B. Mathur 1999

National Catalogue of University Level Books, 1971 - 1972

Engineering Physics Practical -

Semiconductor-Based Sensors - Fan Ren 2016-08-26

This book provides a comprehensive summary of the status of emerging sensor technologies and provides a framework for future advances in the field. Chemical sensors have gained in importance in the past decade for applications that include homeland security, medical and environmental monitoring and also food safety. A desirable goal is the ability to simultaneously analyze a wide variety of environmental and biological gases and liquids in the field and to be able to selectively detect a target analyte with high specificity and sensitivity. The goal is to realize real-time, portable and inexpensive chemical and biological sensors and to use these as monitors for handheld gas, environmental pollutant, exhaled breath, saliva, urine, or blood, with wireless capability. In the medical area, frequent screening can catch the early development of diseases, reduce the suffering of patients due to late diagnoses, and lower the medical cost. For example, a 96% survival rate has been predicted in breast cancer patients if the frequency of screening is every three months. This frequency cannot be achieved with current methods of mammography due to high cost to the patient and invasiveness (radiation). In the area of detection of medical biomarkers, many different methods, including enzyme-linked immunsorbent assay (ELISA), particle-based flow cytometric assays, electrochemical measurements based on impedance and capacitance, electrical measurement of microcantilever resonant frequency change, and conductance measurement of semiconductor nanostructures, gas chromatography (GC), ion chromatography, high density peptide arrays, laser scanning quantitiative analysis, chemiluminescence, selected ion flow tube (SIFT), nanomechanical cantilevers, bead-based suspension microarrays, magnetic biosensors and mass spectrometry (MS) have been employed. Depending on the sample condition, these methods may show variable results in terms of sensitivity for some applications and may not meet the requirements for a handheld biosensor.

Practical Physics - R K Shukla 2007-12

The Book has been written keeping in mind the experiments carried out at B.Sc. level at Indian universities. It is written in an easy to understand and systematic format. Detailed description of different apparatus, related errors and their handling is an added feature of the book. Tables of physical constants are also presented. More than one experimental

method for determining a physical parameter is given so that student can appreciate the intricacies.

Engineering Physics: Vol. 1 -

Human Values & Professional Ethics -

Indian Books in Print - 2003

Nonlinear Approaches in Engineering Applications - Reza N. Jazar 2019-08-06

This book focuses on the latest applications of nonlinear approaches in engineering and addresses a range of scientific problems. Examples focus on issues in automotive technology, including automotive dynamics, control for electric and hybrid vehicles, and autodriver algorithm for autonomous vehicles. Also included are discussions on renewable energy plants, data modeling, driver-aid methods, and low-frequency vibration. Chapters are based on invited contributions from world-class experts who advance the future of engineering by discussing the development of more optimal, accurate, efficient, cost, and energy effective systems. This book is appropriate for researchers, students, and practising engineers who are interested in the applications of nonlinear approaches to solving engineering and science problems. Presents a broad range of practical topics and approaches; Explains approaches to better, safer, and cheaper systems; Emphasises automotive applications, physical meaning, and methodologies.

Publisher's Monthly - 2006

Career Education in India - S. K. Gupta 1994

Indian Journal of Pure & Applied Physics - 1995

Krishna's Engineering Mechanics -

Kirshna's Engineering Chemistry: (U.P.) (Theory and Practicals) -

Engineering Thermodynamics - Gupta S.K. 2013

Continuing the tradition of the best selling textbooks, this first edition “Engineering Thermodynamics” is a comprehensive reference to the broad spectrum of thermodynamics, encapsulating the theoretical and practical aspects of the field. The author addresses a myriad of topics, covering both traditional and innovative approaches. Additionally, the book includes numerous tables

Indian National Bibliography - 2011-07

Energy Research Abstracts - 1992-03

Practical Methods for Environmental Microbiology and Biotechnology -

Enhanced Heat Transfer Mechanism of Nanofluid MQL Cooling Grinding - Li, Changhe 2019-10-25

In today’s modern world, the manufacturing industry is embracing an energy-efficient initiative and adopting green techniques. One aspect that has failed to adopt this scheme is flood grinding. Current flood grinding methods increase the treatment cost of grinding fluid and waste large quantities. In order to remain sustainable and efficient, in-depth research is necessary to study green grinding technologies that can ensure machining precision and surface quality of workpiece and reduce grinding fluid-induced environmental pollution. Enhanced Heat Transfer Mechanism of Nanofluid MQL Cooling Grinding provides emerging research exploring the theoretical and practical aspects of nanofluid lubrication and its application within grinding flow and green manufacturing. Featuring coverage on a broad range of topics such as airflow distribution, morphology analysis, and lubrication performance, this book is ideally designed for mechanical professionals, engineers, manufacturers, researchers, scientists, academicians, and students seeking current research on clean and low-carbon precision machining methods.

Proceedings of the XXIV DAE-BRNS High Energy Physics Symposium,

Jatni, India - Bedangadas Mohanty 2022

This book presents proceedings from the XXIV DAE-BRNS High Energy Physics (HEP) Symposium 2020, held at the National Institute of Science Education and Research, Jatni, Odisha, India. The contributions cover a variety of topics in particle physics, astroparticle physics, cosmology and related areas from both experimental and theoretical perspectives, namely (1) Standard Model Physics, (2) Beyond Standard Model Physics, (3) Relativistic Heavy-Ion Physics & QCD, (4) Neutrino Physics, (5) Particle Astrophysics & Cosmology, (6) Detector Development Future Facilities and Experiments, (7) Formal Theory, (8) Societal Applications: Medical Physics, Imaging, etc.

Krishan's Engineering Physics Vol-2 -

B.Sc. Practical Physics - CL Arora 2001

B.Sc. Practical Physics

Research Anthology on Synthesis, Characterization, and Applications of Nanomaterials - Management Association, Information Resources 2021-03-19

The use of nanotechnologies continues to grow, as nanomaterials have proven their versatility and use in many different fields and industries within the scientific profession. Using nanotechnology, materials can be made lighter, more durable, more reactive, and more efficient leading nanoscale materials to enhance many everyday products and processes. With many different sizes, shapes, and internal structures, the applications are endless. These uses range from pharmaceutics to materials such as cement or cloth, electronics, environmental sustainability, and more. Therefore, there has been a recent surge of research focused on the synthesis and characterizations of these nanomaterials to better understand how they can be used, their applications, and the many different types. The Research Anthology on Synthesis, Characterization, and Applications of Nanomaterials seeks to address not only how nanomaterials are created, used, or characterized, but also to apply this knowledge to the multidimensional industries, fields, and applications of nanomaterials and nanoscience. This includes topics such as both natural and manmade nanomaterials; the size, shape, reactivity, and other essential characteristics of nanomaterials; challenges and potential effects of using nanomaterials; and the advantages of nanomaterials with multidisciplinary uses. This book is ideally designed for researchers, engineers, practitioners, industrialists, educators, strategists, policymakers, scientists, and students working in fields that include materials engineering, engineering science, nanotechnology, biotechnology, microbiology, drug design and delivery, medicine, and more.

Krishna's Electrical Engineering: For 1st Semester All Branches -

Krishina's Engineering Physics; Volume III; Optics; 2001 -

Proceedings of the International Conference on Advances in Surface Treatment : Research & Applications (ASTRA) - 2004

Krishna's Environment and Ecology; for B. Tech Ist and IInd semester students of All Engineering Colleges affiliated to U.P. Technical University, Lucknow; As per revised syllabus, w.e.f. 2008-09 -

Intergral Transforms -

Directory of Physics & Astronomy Staff - 1977

The Water-Food-Energy Nexus - I. M. Mujtaba 2017-09-11

Exponential growth of the worldwide population requires increasing amounts of water, food, and energy. However, as the quantity of available fresh water and energy sources directly affecting cost of food production and transportation diminishes, technological solutions are necessary to secure sustainable supplies. In direct response to this reality, this book focuses on the water-energy-food nexus and describes in depth the challenges and processes involved in efficient water and energy production and management, wastewater treatment, and impact

upon food and essential commodities. The book is organized into 4 sections on water, food, energy, and the future of sustainability, highlighting the interplay among these topics. The first section emphasizes water desalination, water management, and wastewater treatment. The second section discusses cereal processing, sustainable food security, bioenergy in food production, water and energy consumption in food processing, and mathematical modeling for food undergoing phase changes. The third section discusses fossil fuels, biofuels, synthetic fuels, renewable energy, and carbon capture. Finally, the book concludes with a discussion of the future of sustainability, including coverage of the role of molecular thermodynamics in developing processes and products, green engineering in process systems, petrochemical water splitting, petrochemical approaches to solar hydrogen generation, design and operation strategy of energy-efficient processes, and the sustainability of process, supply chain, and enterprise.