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Universities Handbook - 2004

First International Conference on Artificial Intelligence and Cognitive Computing - Raju Surampudi Bapi 2018-11-04

This book presents original research works by researchers, engineers and practitioners in the field of artificial intelligence and cognitive computing. The book is divided into two parts, the first of which focuses on artificial intelligence (AI), knowledge representation, planning, learning, scheduling, perception-reactive AI systems, evolutionary computing and other topics related to intelligent systems and computational intelligence. In turn, the second part focuses on cognitive computing, cognitive science and cognitive informatics. It also discusses applications of cognitive computing in medical informatics, structural health monitoring, computational intelligence, intelligent control systems, bio-informatics, smart manufacturing, smart grids, image/video processing, video analytics, medical image and signal processing, and knowledge engineering, as well as related applications.

Chemistry for Green Environment - M. M. Srivastava 2005

Providing an overview of the current status of chemistry; regarding the implementation of clean, eco-friendly, less improvident manufacturing processes. This book acknowledges a more eco-conscious face of multi-dimensional chemistry: the need, principle, evolution, strategies and bioethical concerns for sustainable development of environment.

Essentials of Ecology and Environmental Science - 2009

Environmental Engineering - Howard S. Peavy 1985

Hydrodynamic Control of Wave Energy Devices - Umesh A. Korde 2016-09-26

With this self-contained and comprehensive text, students and researchers will gain a detailed understanding of the fundamental aspects of the hydrodynamic control of wave energy converters. Such control is necessary to maximise energy capture for a given device configuration and plays a major role in efforts to make wave energy economic. Covering a wide range of disciplines, the reader is taken from the mathematical and technical fundamentals, through the main pillars of wave energy hydrodynamic control, right through to state-of-the-art algorithms for hydrodynamic control. The various operating principles of wave energy converters are exposed and the unique aspects of the hydrodynamic control problem highlighted, with a variety of potential solutions discussed. Supporting material on wave forecasting and the interaction of the hydrodynamic control problem with other aspects of wave energy device optimisation, such as device geometry optimisation and optimal device array layout, is also provided.

Commonwealth Universities Yearbook - 1995

Textbook of Nanoscience and Nanotechnology - B.S. Murty 2013-12-06

This book is meant to serve as a textbook for beginners in the field of nanoscience and nanotechnology. It can also be used as additional reading in this multifaceted area. It covers the entire spectrum of nanoscience and technology: introduction, terminology, historical perspectives of this domain of science, unique and widely differing properties, advances in the various synthesis, consolidation and characterization techniques, applications of nanoscience and technology and emerging materials and technologies.

Indian National Agricultural Bibliography, 1975-84 - 1987

TEXTBOOK OF SURVEYING - P. VENUGOPALA RAO 2015-01-01

This book has been designed to be as a fundamental textbook on surveying, covering all aspects—theory and practical (cases, examples)—for civil engineering students at both degree and diploma level. Written with a student-friendly approach, the book contains solved examples and illustrations for easy understanding of the subject. First ten chapters are the essential concepts needed to be studied in the first semester and the next eight chapters include advanced topics on triangulation, photogrammetry, remote sensing and astronomy that are meant for higher semesters. Details of survey camp work and extensive survey projects are also dealt with in the chapters and in an Appendix separately. Emphasis is given to the systematic and detailed presentation of topics in one volume to benefit the students in their course work. Key features Illustrative Figures exemplify the theories profoundly Exhaustive Solved Examples to help students grasp the concepts easily Analytical Exercises and Numerical Problems to judge students' comprehension on the subject

TEXTBOOK OF ENVIRONMENTAL ENGINEERING - P. VENUGOPALA RAO 2002-01-01

Designed for a first-course in environmental engineering for undergraduate engineering and postgraduate science students, the book deals with environmental pollution and its control methodologies. It explains the basic environmental technology - environmental sanitation, water supply, waste management, air pollution control and other related issues - and presents a logical and systematic treatment of topics. The book, an outgrowth of author's long experience in teaching the postgraduate science and engineering students, is presented in a student-oriented approach. It is interspersed with solved examples and illustrations to reinforce many of the concepts discussed and apprise the readers of the current practices in areas of water processing, water distribution, collection and treatment of domestic sewage and industrial waste water, and control of air pollution. It emphasizes fundamental concepts and basic applications of environmental technology for management of environmental problems. Besides students, the book will be useful to the academia of environmental sciences, civil/environmental engineering as well as to environmentalists and administrators working in the field of pollution control.

PRINCIPLES OF ENVIRONMENTAL SCIENCE AND ENGINEERING - P. VENUGOPALA RAO 2006-01-01

Primarily intended as a text for undergraduate students of engineering for their core course in environmental studies, this book gives a clear introduction to the fundamental principles of ecology and environmental science and aptly summarizes the relationship between ecology and environmental engineering. Divided into three parts, the book begins by discussing the biosphere, natural resources, ecosystems, biodiversity, and community health. Then it goes on to give detailed description on topics such as pollution and control, environmental management, and sustainable development. Finally, it focuses on environmental chemistry, environmental microbiology, and monitoring and analysis of pollutants.

The World of Learning 2001 - Europa Publications 2000

First published in 2000. Routledge is an imprint of Taylor & Francis, an informa company.

Indian Journal of Environmental Health - 1976

Visible-Light-Active Photocatalysis - Srabanti Ghosh 2018-03-29

A comprehensive and timely overview of this important and hot topic, with special emphasis placed on environmental applications and the potential for solar light harvesting. Following introductory chapters on environmental photocatalysis, water splitting, and applications in synthetic chemistry, further chapters focus on the synthesis and design

of photocatalysts, solar energy conversion, and such environmental aspects as the removal of water pollutants, photocatalytic conversion of CO₂. Besides metal oxide-based photocatalysts, the authors cover other relevant material classes including carbon-based nanomaterials and novel hybrid materials. Chapters on mechanistic aspects, computational modeling of photocatalysis and Challenges and perspectives of solar reactor design for industrial applications complete this unique survey of the subject. With its in-depth discussions ranging from a comprehensive understanding to the engineering of materials and applied devices, this is an invaluable resource for a range of disciplines.

Handbook of Laser Technology and Applications - Chunlei Guo
2021-06-23

This comprehensive handbook gives a fully updated guide to lasers and laser technologies, including the complete range of their technical applications. This third volume covers modern applications in engineering and technology, including all new and updated case studies spanning telecommunications and data storage to medicine, optical measurement, defense and security, nanomaterials processing and characterization. Key Features: • Offers a complete update of the original, bestselling work, including many brand-new chapters. • Deepens the introduction to fundamentals, from laser design and fabrication to host matrices for solid-state lasers, energy level diagrams, hosting materials, dopant energy levels, and lasers based on nonlinear effects. • Covers new laser types, including quantum cascade lasers, silicon-based lasers, titanium sapphire lasers, terahertz lasers, bismuth-doped fiber lasers, and diode-pumped alkali lasers. • Discusses the latest applications, e.g., lasers in microscopy, high-speed imaging, attosecond metrology, 3D printing, optical atomic clocks, time-resolved spectroscopy, polarization and profile measurements, pulse measurements, and laser-induced fluorescence detection. • Adds new sections on laser materials processing, laser spectroscopy, lasers in imaging, lasers in environmental sciences, and lasers in communications. This handbook is the ideal companion for scientists, engineers, and students working with lasers, including those in optics, electrical engineering, physics, chemistry, biomedicine, and other relevant areas.

Environmental Pollution Control Engineering - C. S. Rao 2007

This Revised Edition Of The Book On Environmental Pollution Control Engineering Features A Systematic And Thorough Treatment Of The Principles Of The Origin Of Air, Water And Land Pollutants, Their Effect On The Environment And The Methods Available To Control Them. The Demographic And Environmental Trends, Energy Consumption Patterns And Their Impact On The Environment Are Clearly Discussed.

Application Of The Physical, And Chemical Engineering Concepts To The Design Of Pollution Control Equipment Is Emphasized. Due Importance Is Given To Modelling, Quality Monitoring And Control Of Specific Major Pollutants. A Separate Chapter On The Management Of Hazardous Wastes Is Added. Information Pertaining To Indian Conditions Is Given Wherever Possible To Help The Reader Gain An Insight Into India Sown Pollution Problems. This Book Is Mainly Intended As A Textbook For An Integrated One-Semester Course For Senior Level Undergraduate Or First Year Post-Graduate Engineering Students And Can Also Serve As A Reference Book To Practising Engineers And Decision Makers Concerned With Environmental Pollution Control.

Basic Environmental Engineering - R. C. Gaur 2008

Annual Report - Indian Institute of Technology, Bombay 1990

Laser Induced Breakdown Spectroscopy - Andrzej W. Miziolek
2006-09-07

Laser Induced Breakdown Spectroscopy (LIBS) is an emerging technique for determining elemental composition. With the ability to analyse solids, liquids and gases with little or no sample preparation, it is more versatile than conventional methods and is ideal for on-site analysis. This is a comprehensive reference explaining the fundamentals of the LIBS phenomenon, its history and its fascinating applications across eighteen chapters written by recognized leaders in the field. Over 300 illustrations aid understanding. This book will be of significant interest to researchers in chemical and materials analysis within academia and industry.

Vayu Mandal - 1999

ELEMENTS OF ENVIRONMENTAL SCIENCE AND ENGINEERING - P. MEENAKSHI 2012-10-03

Designed as a text for all undergraduate students of engineering for their core course in Environmental Science and Engineering and for elective courses in environmental health engineering and pollution and control

engineering for students of civil engineering, this comprehensive text, now in its Second Edition provides an in-depth analysis of the fundamental concepts. It also introduces the reader to different niche areas of environmental science and engineering. The book covers a wide array of topics, such as natural resources, disaster management, biodiversity, and various forms of pollution, viz. water pollution, air pollution, soil pollution, noise pollution, thermal pollution, and marine pollution, as well as environmental impact assessment and environmental protection. This edition introduces a new chapter on Environment and Human Health. KEY FEATURES : Gives in-depth yet lucid analysis of topics, making the book user-friendly. Covers important topics, which are adequately supported by illustrative diagrams. Provides case studies to explore real-life problems. Supplies review questions at the end of each chapter to drill the students in self-study.

Biotechnological Approaches for Medicinal and Aromatic Plants - Nitish Kumar 2018-09-11

For the majority of the world's population, medicinal and aromatic plants are the most important source of life-saving drugs. Biotechnological tools represent important resources for selecting, multiplying and conserving the critical genotypes of medicinal plants. In this regard, in-vitro regeneration holds tremendous potential for the production of high-quality plant-based medicines, while cryopreservation - a long-term conservation method using liquid nitrogen - provides an opportunity to conserve endangered medicinal and aromatic plants. In-vitro production of secondary metabolites in plant cell suspension cultures has been reported for various medicinal plants, and bioreactors represent a key step toward the commercial production of secondary metabolites by means of plant biotechnology. Addressing these key aspects, the book contains 29 chapters, divided into three sections. Section 1: In-vitro production of secondary metabolites Section 2: In-vitro propagation, genetic transformation and germplasm conservation Section 3: Conventional and molecular approaches

Fatigue, Durability, and Fracture Mechanics - S. Seetharamu
2020-10-01

This book presents selected papers presented during Fatigue Durability India 2019. The contents of this volume discuss advances in the field of fatigue, durability, and fracture, and cover mechanical failure and its applications. The chapters cover a wide spectrum of topics, including design, engineering, testing and computational evaluation of the components or systems for fatigue, durability, and fracture mechanics. The contents of this book will appeal not only to academic researchers, but also to design engineers, failure analysts, maintenance engineers, certification personnel, and R&D professionals involved in a wide variety of industries.

Principles of Environmental Engineering and Science - Mackenzie Leo Davis 2009

This text is well-suited for a course in introductory environmental engineering for sophomore, or junior level students. The emphasis is on concepts, definitions, descriptions, and abundant illustrations, rather than on engineering design detail.

Accessions of Unlimited Distribution Reports - 1973-03-16

Waste Water Engineering - Dr. B.C. Punmia 1998

Nuclear Science Abstracts - 1971-11

Building Materials and Construction & Materials Engineering and Nano Sciences - Kiang Hwee Tan 2022-11-10

Selected peer-reviewed extended articles based on abstracts presented at the 2022 7th International Conference on Building Materials and Construction & 2022 6th International Conference on Materials Engineering and Nano Sciences Aggregated Book Emerging Trends in Science, Engineering and Technology - S Sathiyamoorthy 2012-12-14

The present book is based on the research papers presented in the International Conference on Emerging Trends in Science, Engineering and Technology 2012, held at Tiruchirapalli, India. The papers presented bridges the gap between science, engineering and technology. This book covers a variety of topics, including mechanical, production, aeronautical, material science, energy, civil and environmental energy, scientific management, etc. The prime objective of the book is to fully integrate the scientific contributions from academicians, industrialists and research scholars.

Handbook of Algal Technologies and Phytochemicals - Gokare A. Ravishankar 2019-07-12

Key features: The most comprehensive resource available on the biodiversity of algal species, their industrial production processes and their use for human consumption in food, health and varied applications. Emphasis on basic and applied research, addressing aspects of scale-up for commercial exploitation for the development of novel phytochemicals (phytochemicals from algae). Addresses the underexplored and underutilized potential of chemicals from marine sources for health benefits. Each chapter, written by expert contributors from around the world, includes Summary Points, Figures and Tables, as well as up-to-date references. The first book in this two-volume set explores the diversity of algal constituents for health and disease applications. The commercial value of chemicals of value to food and health is about \$6 billion annually, of which 30 percent relates to micro and macro algal metabolites and products for health food applications. This comprehensive volume looks in detail at algal genomics and metabolomics as well as mass production of microalgae. As a whole, the two-volume set covers all micro and macro algal forms and their traditional uses; their constituents which are of value for food, feed, specialty chemicals, bioactive compounds for novel applications, and bioenergy molecules. Bio-business and the market share of algae-based products are also dealt with, providing global perspectives.

Journal of the Institution of Engineers (India). - 1973

Neem - K. K. Singh 2009

The present edited volume *Neem: A Treatise* provides a comprehensive account of this wonder tree *Neem* (*Azadirachta indica* A. Juss.). An excellent reference text, it offers a versatile and in-depth discussion of the following: the occurrence of neem, its distribution, ethnobotany, uses in agroforestry, silviculture and social forestry, cultivation and improvement of neem, propagation by tissue culture, chemical constituents and their bioactivity against micro-flora and micro-fauna, disease, stored grain insect-pests, enhancing fertilizer use efficiency, neem in health and cosmetics, various therapeutic uses such as malaria and vector control, contraceptive, ancient veterinary medicines, uses of neem bark in dyeing cotton fabrics, and steps for promoting neem and its cultivation. This book will be very useful for researchers of various disciplines such as botany, forestry, chemistry, toxicology, agrochemicals, soil science, agronomy, entomology, plant pathology, medical, and veterinary science, as well as to the environmental conscious farmers of developed and developing countries.

Perspectives in Environmental Studies - Anubha Kaushik 2006

Environmental Studies pertain to a systematic analysis of the natural and man-made world encompassing various scientific, economic, social and ethical aspects. Human impacts leading to large scale degradation of the environment have aroused global concern on environmental issues in the recent years. The apex court has hence, issued directive to impart environmental literacy to all. In this book the fundamental concepts of environmental studies have been introduced and analysed in a simple manner strictly as per the module syllabus designed by the U.G.C. for undergraduate courses in science, humanities, engineering, medicine, pharmacy, commerce, management and law. Besides the undergraduate students of all disciplines the book will also be useful for those appearing in various competitive exams since environmental issues now find a focus in most of such examinations. The contents of the book will be of interest to all educationists, planners and policy makers. Key features of the book include a simple and holistic approach with illustrations, tables and specific case studies mainly in the Indian context. The basic terminologies have been defined in the text while introducing the topics and some useful terms mentioned in the text have been explained in the glossary for an easy grasp by students of all disciplines.

Carbon-Based Material for Environmental Protection and Remediation - Mattia Bartoli 2020-08-19

Carbon-Based Material for Environmental Protection and Remediation presents an overview of carbon-based technologies and processes, and examines their usefulness and efficiency for environmental preservation and remediation. Chapters cover topics ranging from pollutants removal to new processes in materials science. Written for interested readers with strong scientific and technological backgrounds, this book will appeal to scientific advisors at private companies, academics, and graduate students.

Trends in Computer Science, Engineering and Information Technology - Dhinakaran Nagamalai 2011-10-13

This book constitutes the refereed proceedings of the First International Conference on Computer Science, Engineering and Information Technology, CCSEIT 2011, held in Tirunelveli, India, in September 2011.

The 73 revised full papers were carefully reviewed and selected from more than 400 initial submissions. The papers feature significant contributions to all major fields of the Computer Science and Information Technology in theoretical and practical aspects.

Inorganic Anticorrosive Materials - Chandrabhan Verma 2021-11-24

Inorganic Anticorrosive Materials (IAMs): Past, Present, and Future Perspectives covers the anticorrosive effects of inorganic materials and metal oxides in particular. The book presents the latest developments in corrosion inhibition and discusses future opportunities. It also addresses the fundamental characteristics, synthesis, inhibition mechanisms, and applications of metal oxides as corrosion inhibitors in industry and provides a chronological overview of the growth of the field. The book concludes with discussions about commercialization and economics. This book is an indispensable reference for scholars, chemical engineers, chemists, and materials scientists working in research and development and in academia who require comprehensive knowledge of corrosion-inhibition mechanisms. Utilizes metal oxides as corrosion inhibitors for usage in modern industrial platforms Evaluates corrosion inhibitors as prime options for sustainable and transformational opportunities Provides up-to-date reference materials, including websites of interest and information about ongoing research

Microscopy Applied to Materials Sciences and Life Sciences - Ajay Vasudeo Rane 2018-11-21

This new volume, *Microscopy Applied to Materials Sciences and Life Sciences*, focuses on recent theoretical and practical advances in polymers and their blends, composites, and nanocomposites related to their microscopic characterization. It highlights recent accomplishments and trends in the field of polymer nanocomposites and filled polymers related to microstructural characterization. This book gives an insight and better understanding into the development in microscopy as a tool for characterization. The book emphasizes recent research work in the field of microscopy in life sciences and materials sciences mainly related to its synthesis, characterizations, and applications. The book explains the application of microscopic techniques in life sciences and materials sciences, and their applications and state of current research carried out. The book aims to foster a better understanding of the properties of polymer composites by describing new techniques to measure microstructure property relationships and by utilizing techniques and expertise developed in the conventional filled polymer composites. Characterization techniques, particularly microstructural characterization, have proven to be extremely difficult because of the range of length-scales associated with these materials. Topics include: •Instrumentation and Techniques: advances in scanning probe microscopy, SEM, TEM, OM. 3D imaging and tomography, electron diffraction techniques and analytical microscopy, advances in sample preparation techniques in-situ microscopy, correlative microscopy in life and material sciences, low voltage electron microscopy. •Life Sciences: Structure and imaging of biomolecules, live cell imaging, neurobiology, organelles and cellular dynamics, multi-disciplinary approaches for medical and biological sciences, microscopic application in plants, microorganism and environmental science, super resolution microscopy in biological sciences. •Materials Sciences: materials for nanotechnology, metals alloys and inter-metallic, ceramics, composites, minerals and microscopy in cultural heritage, thin films, coatings, surfaces and interfaces, carbon based materials, polymers and soft materials and self-assembled materials, semiconductors and magnetic materials. Polymers and inorganic nanoparticles. The volume will be of significant interest to scientists working on the basic issues surrounding polymers, nanocomposites, and nanoparticle-filled polymers, as well as those working in industry on applied problems, such as processing. Because of the multidisciplinary nature of this research, the book will be valuable to chemists, materials scientists, physicists, chemical engineers, and processing specialists who are involved and interested in the future frontiers of blends.

Handbook of Universities - 2006

The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private

Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In

Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable.

India Who's who - 1982