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Creep-Resistant Steels
Fujio Abe 2008-03-14
Creep-resistant steels are widely used in the petroleum, chemical and power generation industries. Creep-resistant steels must be reliable over very long periods of time at high temperatures and in severe environments. Understanding and improving long-term

creep strength is essential for safe operation of plant and equipment. This book provides an authoritative summary of key research in this important area. The first part of the book describes the specifications and manufacture of creep-resistant steels. Part two covers the behaviour of creep-resistant

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steels and methods for strengthening them. The final group of chapters analyses applications in such areas as turbines and nuclear reactors. With its distinguished editors and international team of contributors, Creep-resistant steels is a valuable reference for the power generation, petrochemical and other industries which use high strength steels at elevated temperatures. Describes the specifications and manufacture of creep-resistant steels Strengthening methods are discussed in detail Different applications are analysed including turbines and nuclear reactors

Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications Vinit Kumar Gunjan 2020-10-17 This book gathers selected research papers presented at the International Conference on Recent Trends in Machine Learning, IOT,

Smart Cities & Applications (ICMISC 2020), held on 29-30 March 2020 at CMR Institute of Technology, Hyderabad, Telangana, India. Discussing current trends in machine learning, Internet of things, and smart cities applications, with a focus on multi-disciplinary research in the area of artificial intelligence and cyber-physical systems, this book is a valuable resource for scientists, research scholars and PG students wanting formulate their research ideas and find the future directions in these areas. Further, it serves as a reference work anyone wishing to understand the latest technologies used by practicing engineers around the globe.

Proceedings of International Conference on Intelligent Manufacturing and Automation Hari Vasudevan 2020-06-30 This book gathers selected papers presented at the

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International Conference on Intelligent Manufacturing and Automation (ICIMA 2020), which was jointly organized by the Departments of Mechanical Engineering and Production Engineering at Dwarkadas J. Sanghvi College of Engineering (DJSCE), Mumbai, and by the Indian Society of Manufacturing Engineers (ISME). Covering a range of topics in intelligent manufacturing, automation, advanced materials and design, it focuses on the latest advances in e.g. CAD/CAM/CAE/CIM/FMS in manufacturing, artificial intelligence in manufacturing, IoT in manufacturing, product design & development, DFM/DFA/FMEA, MEMS & nanotechnology, rapid prototyping, computational techniques, nano- & micro-machining, sustainable manufacturing, industrial engineering, manufacturing process management, modelling & optimization techniques,

CRM, MRP & ERP, green, lean & agile manufacturing, logistics & supply chain management, quality assurance & environmental protection, advanced material processing & characterization of composite & smart materials. The book is intended as a reference guide for future researchers, and as a valuable resource for students in graduate and doctoral programmes. Advances in Lightweight Materials and Structures

A. Praveen Kumar
2020-10-13 This book presents select proceedings of the International Conference on Advanced Lightweight Materials and Structures (ICALMS) 2020, and discusses the triad of processing, structure, and various properties of lightweight materials. It provides a well-balanced insight into materials science and mechanics of both synthetic and natural composites. The book includes topics such as nano composite

lightweight structures, impact and failure of structures, biomechanics and biomedical engineering, nanotechnology and micro-engineering, tool design and manufacture for producing lightweight components, joining techniques for lightweight structures for similar and dissimilar materials, design for manufacturing, reliability and safety, robotics, automation and control, fatigue and fracture mechanics, and friction stir welding in lightweight sandwich structures. The book also discusses latest research in composite materials and their applications in the field of aerospace, construction, wind energy, automotive, electronics and so on. Given the range of topics covered, this book can be a useful resource for beginners, researchers and professionals interested in the wide ranging applications of lightweight structures.

The Maruti Story R C Bhargava 2010-02-02 An extraordinary and rare insight into how a few determined entrepreneurs created an icon... - C. K. Prahalad The targets were stupendous and considered unachievable by almost everyone. Slightly over two years to find a suitable partner, finalize all legal documentation, get governmental approval to these agreements as well as to the investment proposals, build a factory, develop a supplier base to meet localization regulations, create a sales and service network, and develop and launch a peoples car that would sell 100,000 a year, in a sector where Indian expertise was limited. And to do this as a public sector company, having to follow all governmental systems and procedures, and having to please both its masters in the government and Suzuki Motor Corporation. However, the Maruti project succeeded, and in ways that were

unimaginable in 1983. The car revolutionized the industry and put a country on wheels. Suddenly, ordinary middle-class men and women could aspire to own a reliable, economical and modern car, and the steep sales targets were easily met. Twenty-six years later, the company, now free of government controls and facing competition from the worlds major manufacturers who have entered the Indian market, still leads the way. Not only that, cars made by Maruti can be seen in all continents. By any yardstick, it is an incredible story, involving grit, management skill and entrepreneurship of a high order. R.C. Bhargava, who was at the helm of the company, and is currently its chairman, co-writing with senior journalist and author Seetha, shows how it was done in this riveting account of a landmark achievement.

Proceedings of International Conference on Advances in Tribology

and Engineering Systems

Himanshu C. Patel
2013-10-17 This book contains advanced-level research material in the area of lubrication theory and related aspects, presented by eminent researchers during the International Conference on Advances in Tribology and Engineering Systems (ICATES 2013) held at Gujarat Technological University, Ahmedabad, India during October 15-17, 2013. The material in this book represents the advanced field of tribology and reflects the work of many eminent researchers from both India and abroad. The treatment of the presentations is the result of the contributions of several professionals working in the industry and academia. This book will be useful for students, researchers, academicians, and professionals working in the area of tribology, in general, and bearing performance characteristics, in particular, especially

from the point-of-view of design. This book will also appeal to researchers and professionals working in fluid-film lubrication and other practical applications of tribology. A wide range of topics has been included despite space and time constraints. Basic concepts and fundamentals techniques have been emphasized upon, while also including highly specialized topics and methods (such as nanotribology, bio-nanotribology). Care has been taken to generate interest for a wide range of readers, considering the interdisciplinary nature of the subject.

Techno-Societal 2020

Prashant M. Pawar
2021-06-19 This book, divided in two volumes, originates from Techno-Societal 2020: the 3rd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various

engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus of this volume is on technologies that help develop and improve society, in particular on issues such as advanced and sustainable technologies for manufacturing processes, environment, livelihood, rural employment, agriculture, energy, transport, sanitation, water, education. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of

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Engineering and Technology for reporting innovations at different levels.

Advances in Computing and Information

Technology Natarajan Meghanathan 2012-08-13
The international conference on Advances in Computing and Information technology (ACITY 2012) provides an excellent international forum for both academics and professionals for sharing knowledge and results in theory, methodology and applications of Computer Science and Information Technology. The Second International Conference on Advances in Computing and Information technology (ACITY 2012), held in Chennai, India, during July 13-15, 2012, covered a number of topics in all major fields of Computer Science and Information Technology including: networking and communications, network security and applications, web and internet computing, ubiquitous computing, algorithms,

bioinformatics, digital image processing and pattern recognition, artificial intelligence, soft computing and applications. Upon a strength review process, a number of high-quality, presenting not only innovative ideas but also a founded evaluation and a strong argumentation of the same, were selected and collected in the present proceedings, that is composed of three different volumes.

Two-Phase Flow for Automotive and Power Generation Sectors

Kaushik Saha 2018-11-03
This book focuses on the two-phase flow problems relevant in the automotive and power generation sectors. It includes fundamental studies on liquid-gas two-phase interactions, nucleate and film boiling, condensation, cavitation, suspension flows as well as the latest developments in the field of two-phase problems pertaining to power generation systems. It also discusses the

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analytical, numerical and experimental techniques for investigating the role of two-phase flows in performance analysis of devices like combustion engines, gas turbines, nuclear reactors and fuel cells. The wide scope of applications of this topic makes this book of interest to researchers and professionals alike.

Composite Materials It Meng Low 2021-06-18

Composite materials have been well developed to meet the challenges of high-performing material properties targeting engineering and structural applications. The ability of composite materials to absorb stresses and dissipate strain energy is vastly superior to that of other materials such as polymers and ceramics, and thus they offer engineers many mechanical, thermal, chemical and damage-tolerance advantages with limited drawbacks such as brittleness. *Composite Materials: Manufacturing,*

Properties and Applications presents a comprehensive review of current status and future directions, latest technologies and innovative work, challenges and opportunities for composite materials. The chapters present latest advances and comprehensive coverage of material types, design, fabrication, modelling, properties and applications from conventional composite materials to advanced composites such as nanocomposites, self-healing and smart composites. The book targets researchers in the field of advanced composite materials and ceramics, students of materials science and engineering at the postgraduate level, as well as material engineers and scientists working in industrial R&D sectors for composite material manufacturing. Comprehensive coverage of material types, design, fabrication, modelling, properties and applications

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conventional composite materials to advanced composites such as nanocomposites, self-healing and smart composites Features latest advances in terms of mechanical properties and other material parameters which are essential for designers and engineers in the composite and composite reinforcement manufacturing industry, as well as all those with an academic research interest in the subject Offers a good platform for end users to refer to the latest technologies and topics fitting into specific applications and specific methods to tackle manufacturing or material processing issues in relation to different types of composite materials

The Bhutan Electric Vehicle Initiative Da Zhu 2016-04-06 As the country that inspires the world with 'gross national happiness' development philosophy, Bhutan is striving to pursue its economic growth while committing

to its core values of inclusive and green development. Even with robust economic growth rates, Bhutan's dependence on imports and hydropower revenues drives the country to search for self-reliant option to fuel the economy while further decarbonizing the economy. Electric vehicle is being explored as one of the key policies to introduce green mobility, reduce fossil fuel imports and put the country firmly on a green growth path. Globally, electric vehicles market and technology are still in the nascent stage but are developing rapidly. The automotive industry has adopted electrification as a pillar of future drive train technology. EV uptake is expected to increase significantly with ongoing improvements in technology and resulting cost decreases in the global market. This report aims to help Bhutan think through

various technical and policy issues of introducing electric vehicles in its own context. It analyses a variety of factors that will impact adoption of electric vehicles from technical, market and financial feasibility to consumer awareness and stakeholders' capacity. It also addresses several policy questions which are at the heart of public debate such as affordability of the government to undertake the program, economic costs and benefits, distributional impact, fiscal, and macroeconomic implications. Drawing from vast international experiences, the report examines in great technical details how global cutting-edge technology like electric vehicles could be pursued in the context of developing economies with different socio-economic characteristics and constraints compared to advanced economies. It will help readers better grasp the technical, financial,

economic and social challenges as well as opportunities in initiating electric vehicles program and provide practical recommendations that will be useful for policy makers in designing their own EV initiative.

Advances in Mathematical Methods and High Performance Computing

Vinai K. Singh

2019-03-14 This special volume of the conference will be of immense use to the researchers and academicians. In this conference, academicians, technocrats and researchers will get an opportunity to interact with eminent persons in the field of Applied Mathematics and Scientific Computing.

The topics to be covered in this International Conference are comprehensive and will be adequate for developing and understanding about new developments and emerging trends in this area. High-Performance Computing (HPC)

have gone through many changes during the past two decades in their architectural design to satisfy the increasingly large-scale scientific computing demand.

Accurate, fast, and scalable performance models and simulation tools are essential for evaluating alternative architecture design decisions for the massive-scale computing systems. This conference recounts some of the influential work in modeling and simulation for HPC systems and applications, identifies some of the major challenges, and outlines future research directions which we believe are critical to the HPC modeling and simulation community.

Advances in Signal Processing and Intelligent Recognition Systems Sabu M. Thampi
2019-01-06 This book constitutes the refereed proceedings of the 4th International Symposium on Advances in Signal Processing and Intelligent Recognition Systems, SIRS 2018, held

in Bangalore, India, in September 2018. The 28 revised full papers and 11 revised short papers presented were carefully reviewed and selected from 92 submissions. The papers cover wide research fields including information retrieval, human-computer interaction (HCI), information extraction, speech recognition.

Vehicle Dynamics Reza N. Jazar 2013-11-19 This textbook is appropriate for senior undergraduate and first year graduate students in mechanical and automotive engineering. The contents in this book are presented at a theoretical-practical level. It explains vehicle dynamics concepts in detail, concentrating on their practical use. Related theorems and formal proofs are provided, as are real-life applications. Students, researchers and practicing engineers alike will appreciate the user-friendly presentation of

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of topics, most notably steering, handling, ride, and related components. This book also: Illustrates all key concepts with examples Includes exercises for each chapter Covers front, rear, and four wheel steering systems, as well as the advantages and disadvantages of different steering schemes Includes an emphasis on design throughout the text, which provides a practical, hands-on approach

Advances in Carbon Management Technologies

Subhas K. Sikdar
2021-02-01 Volume 2 of Advances in Carbon Management Technologies has 21 chapters. It presents the introductory chapter again, for framing the challenges that confront the proposed solutions discussed in this volume. Section 4 presents various ways biomass and biomass wastes can be manipulated to provide a low-carbon footprint of the generation of power,

heat and co-products, and of recovery and reuse of biomass wastes for beneficial purposes. Section 5 provides potential carbon management solutions in urban and manufacturing environments. This section also provides state-of-the-art of battery technologies for the transportation sector. The chapters in section 6 deals with electricity and the grid, and how decarbonization can be practiced in the electricity sector. The overall topic of advances in carbon management is too broad to be covered in a book of this size. It was not intended to cover every possible aspect that is relevant to the topic. Attempts were made, however, to highlight the most important issues of decarbonization from technological viewpoints. Over the years carbon intensity of products and processes has decreased, but the proportion of energy derived

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fossil fuels has been stubbornly stuck at about 80%. This has occurred despite very rapid development of renewable fuels, because at the same time the use of fossil fuels has also increased. Thus, the challenges are truly daunting. It is hoped that the technology choices provided here will show the myriad ways that solutions will evolve. While policy decisions are the driving forces for technology development, the book was not designed to cover policy solutions.

Transforming Agriculture in Southern Africa

Richard A. Sikora

2019-11-27 This book

provides a synthesis of the key issues and challenges facing agriculture and food production in Southern Africa. Southern Africa is facing numerous challenges from diverse issues such as agricultural transformations, growing populations, urbanization and climate change. These challenges

place great pressure on food security, agriculture, water availability and other natural resources, as well as impacting biodiversity. Drawing on case studies from Lesotho, Malawi, Mozambique, Namibia, South Africa, Swaziland, Tanzania, Zambia and Zimbabwe, the chapters in this book consider these challenges from an interdisciplinary perspective, covering key areas in constraints to production, the most important building blocks of good farming practices, and established and emerging technologies. This book will be a valuable support for informing new policies and processes aimed at improving food production and security and developing sustainable agriculture in Southern Africa. This informative volume will be key reading for those interested in agricultural science, African studies, rural studies, development studies and

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sustainability. It will also be a valuable resource for policymakers, governmental and nongovernmental organizations, and agricultural practitioners.

Vehicle Fuel Economy

Defects in Two-Dimensional Materials

Rafik Addou 2022-03-01

Defects in Two-Dimensional Materials addresses the fundamental physics and chemistry of defects in 2D materials and their effects on physical, electrical and optical properties. The book explores 2D materials such as graphene, hexagonal boron nitride (h-BN) and transition metal dichalcogenides (TMD). This knowledge will enable scientists and engineers to tune 2D materials properties to meet specific application requirements. The book reviews the techniques to characterize 2D material defects and compares the defects present in the various 2D materials (e.g.

graphene, h-BN, TMDs, phosphorene, silicene, etc.). As two-dimensional materials research and development is a fast-growing field that could lead to many industrial applications, the primary objective of this book is to review, discuss and present opportunities in controlling defects in these materials to improve device performance in general or use the defects in a controlled way for novel applications. Presents the theory, physics and chemistry of 2D materials Catalogues defects of 2D materials and their impacts on materials properties and performance Reviews methods to characterize, control and engineer defects in 2D materials

Interdisciplinary Research in Technology and Management

Satyajit Chakrabarti 2021-09-14

The conference on ‘Interdisciplinary Research in Technology and Management’ was a bold experiment in deviating from the traditional approach of

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conferences which focus on a specific topic or theme. By attempting to bring diverse inter-related topics on a common platform, the conference has sought to answer a long felt need and give a fillip to interdisciplinary research not only within the technology domain but across domains in the management field as well. The spectrum of topics covered in the research papers is too wide to be singled out for specific mention but it is noteworthy that these papers addressed many important and relevant concerns of the day.

Materials Management

Prem Vrat 2014-08-26

This book examines the problem of managing the flow of materials into, through, and out of a system in order to improve the efficiency and effectiveness of materials management. The subject is crucial for global competitive advantage, as materials constitute the largest single cost factor in manufacturing and

service, and their effective management enhances value for money. In this context, inventory is a barometer of materials management effectiveness, along with wastage of materials. The book adopts a comprehensive, integrated systems approach and covers almost all aspects of materials, considering the specification, procurement, storage, handling, issue, use and accounting of materials to get the most out of every dollar invested. Combining conceptual clarity and quantitative rigor, it will be a highly useful guide for practicing managers, academics and researchers in this vital functional area.

Innovative Product Design and Intelligent Manufacturing Systems

BBVL. Deepak 2020-03-13

This book gathers selected research articles from the International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDIMS 2019)

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the National Institute of Technology, Rourkela, India. The book discusses latest methods and advanced tools from different areas of design and manufacturing technology. The main topics covered include design methodologies, industry 4.0, smart manufacturing, and advances in robotics among others. The contents of this book are useful for academics as well as professionals working in industrial design, mechatronics, robotics, and automation.

IRON MAKING AND STEELMAKING AHINDRA

GHOSH 2008-02-29 This authoritative account covers the entire spectrum from iron ore to finished steel. It begins by tracing the history of iron and steel production, right from the earlier days to today's world of oxygen steelmaking, electric steelmaking, secondary steelmaking and continuous casting. The physicochemical fundamental concepts of chemical equilibrium,

activity-composition relationships, and structure-properties of molten metals are introduced before going into details of transport phenomena, i.e. kinetics, mixing and mass transfer in ironmaking and steelmaking processes. Particular emphasis is laid on the understanding of the fundamental principles of the processes and their application to the optimisation of actual processes. Modern developments in blast furnaces, including modelling and process control are discussed along with an introduction to the alternative methods of ironmaking. In the area of steelmaking, BOF plant practice including pre-treatment of hot metal, metallurgical features of oxygen steelmaking processes, and their control form part of the book. It also covers basic open hearth, electric arc furnace and stainless steelmaking, before discussing the

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casting of liquid steel—ingot casting, continuous casting and near net shape casting. The book concludes with a chapter on the status of the ironmaking and steelmaking in India. In line with the application of theoretical principles, several worked-out examples dealing with fundamental principles as applied to actual plant situations are presented. The book is primarily intended for undergraduate and postgraduate students of metallurgical engineering. It would also be immensely useful to researchers in the area of iron and steel. *Springer Handbook of Electronic and Photonic Materials* Safa Kasap 2017-10-04 The second, updated edition of this essential reference book provides a wealth of detail on a wide range of electronic and photonic materials, starting from fundamentals and building up to advanced topics and applications. Its extensive coverage,

with clear illustrations and applications, carefully selected chapter sequencing and logical flow, makes it very different from other electronic materials handbooks. It has been written by professionals in the field and instructors who teach the subject at a university or in corporate laboratories. The *Springer Handbook of Electronic and Photonic Materials*, second edition, includes practical applications used as examples, details of experimental techniques, useful tables that summarize equations, and, most importantly, properties of various materials, as well as an extensive glossary. Along with significant updates to the content and the references, the second edition includes a number of new chapters such as those covering novel materials and selected applications. This handbook is a valuable resource for graduate students, researchers and

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practicing professionals working in the area of electronic, optoelectronic and photonic materials.

Traceable Temperatures

J. V. Nicholas

2001-12-05 The accurate measurement of temperature is a vital parameter in many fields. A critically important aspect of applying any temperature sensor is that of traceable calibration - a concept that has been developed to ensure that all measurements made are accurate and legally valid. This timely new edition reflects the marked move towards ISO accreditation in measurement laboratories internationally, and the ever increasing emphasis on adequate uncertainty analysis for measurements in accredited laboratories to conform to national and international bodies, and the SI and Metric treaty. * Fully revised and updated to incorporate the latest trends and developments in measurements and calibration * Provides

information concurrent with the latest ISO Quality Standards for assessing the uncertainty of measurement sensors * Offers detailed coverage of traceability, how to make traceable measurements and how to design, carry out and report calibration * Unique emphasis on possible problems in the field, and provision of practical advice on how to recognise and treat errors. An essential reference resource for practising and training engineers, scientists and technicians in accredited test and calibration laboratories involved in temperature measurement and calibration.

Cyber-Proletariat Nick Dyer-Witthford

2015-10-29 The utopian promise of the internet, much talked about even a few years ago, has given way to brutal realities: coltan mines in the Congo, electronics factories in China, devastated neighborhoods in Detroit. Cyber-

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Proletariat shows us the dark-side of the information revolution through an unsparing analysis of class power and computerization. Dyer-Witthford investigates how technology facilitates growing polarization between wealthy elites and precarious workers. He reveals the class domination behind everything from expanding online surveillance to intensifying robotization. At the same time, he looks at possibilities for information technology within radical movements.

HVAC Control in the New Millennium Michael F. Hordeski 2001 1-Heat, Ventilation and Damper Control Trends2-Energy and Power Management, Distributed Control Trends3-Control Technology, Microelectronics and Nanotechnology4-Advance HVAC Control, Information Technology and Open Systems5-PC-based Control, Software and Bus Trends6-

Artificial Intelligence, Fuzzy Logic and Control7-Computer Networks and Security8-Systems and Device Networks9-Building automation, Wireless Technology and the InternetIndex

Resource Efficiency and Climate Change

United Nations 2021-01-12 "The International Resource Panel (IRP) was established to provide independent, coherent and authoritative scientific assessments on the use of natural resources and their environmental impacts over the full life cycle. The Panel aims to contribute to a better understanding of how to decouple economic growth from environmental degradation while enhancing well-being. The Secretariat is hosted by the United Nations Environment Programme. IRP assessments demonstrate the opportunities for governments, businesses and wider society to work together to create and implement policies that ultimately

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sustainable resource management, including through better planning, technological innovation and strategic incentives and investments.

Materials are vital to modern society, but their production is an important source of greenhouse gases.

Emissions from material production are now comparable to those from agriculture, forestry, and land use change combined, yet they have received much less attention from the climate policy community. The IPR authors propose looking beyond energy efficiency to reduce global carbon footprint. This report was developed by the IRP in response to a request from the Group of 7. It conducts a rigorous assessment of the contribution of material efficiency to GHG abatement strategies. More concretely, it assesses the potential reduction of GHG emissions from material efficiency strategies applied in residential buildings and light duty

vehicles, and reviews policies that address these strategies. The IRP modelling results show that increasing material efficiency can help enhance efforts in moving towards the 1.5° C target set by the Paris Agreement." -- Page 4 of cover

Advances in Interdisciplinary Engineering Mukul Kumar 2020-08-14 This book presents select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2018). The book discusses interdisciplinary areas such as automobile engineering, mechatronics, applied and structural mechanics, bio-mechanics, biomedical instrumentation, ergonomics, biodynamic modeling, nuclear engineering, agriculture engineering, and farm machineries. The contents of the book will benefit both researchers and professionals.

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**Innovation and
Interdisciplinary
Solutions for
Underserved Areas** Cheikh

M. F. Kebe 2018-01-24
This book constitutes the refereed post-conference proceedings of the First International Conference on Innovation and Interdisciplinary Solutions for Underserved Areas, InterSol 2017, and the 6th Collogue National sur la Recherche en Informatique et ses Applications (CNRIA), held in Dakar, Senegal, in April 2017. The 15 papers presented at InterSol were selected from 76 submissions and are grouped thematically in science, energy and environment, education, innovation, and healthcare. The proceedings also contain 13 papers from the co-located 6th CNRIA (Collogue National sur la Recherche en Informatique et ses Applications) focusing on network architecture and security, software engineering, data management, and signal

processing.
Hydrological Extremes
Ashish Pandey 2020-11-07
This book presents quality technical papers representing the recent developments in the field of hydrological modeling, water management and water governance including practical applications. The content covers multifarious aspects of hydrology and water resources. It includes an application of the Hydrologic Modelling System (HEC-HMS) which has been successfully demonstrated for assessment of floods. The authors suggest an approach for the mitigation of cyclone disaster through a case study of the Phailin cyclone, whilst considering mitigating pluvial flooding, developing suitable management strategies. The book includes chapters discussing the detrended fluctuation analysis which is carried out for multifractal description of droughts. Drought characteristic

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analyzed, and drought indices evolved for drought preparedness/management. The use of science in community planning under changing climate is also studied and discussed. The authors present an experimental study wherein hydraulic coefficients are calibrated by using a vertical orifice. A cross flow hybrid hydrokinetic turbine is also evaluated for performance, and a high head regulating radial gate designed and studied its sensitivity. This book will appeal to researchers, field practitioners, NGO and other Governmental as well as private water practitioners

Applications of Artificial Intelligence Techniques in

Engineering Hasmat Malik 2018-09-18 The book is a collection of high-quality, peer-reviewed innovative research papers from the International Conference on Signals, Machines and Automation (SIGMA 2018) held at Netaji Subhas

Institute of Technology (NSIT), Delhi, India. The conference offered researchers from academic and industry the opportunity to present their original work and exchange ideas, information, techniques and applications in the field of computational intelligence, artificial intelligence and machine intelligence. The book is divided into two volumes discussing a wide variety of industrial, engineering and scientific applications of the emerging techniques.

Sensors for Automotive and Aerospace

Applications Shantanu Bhattacharya 2018-11-01 This volume covers the various sensors related to automotive and aerospace sectors, discussing their properties as well as how they are realized, calibrated and deployed. Written by experts in the field, it provides a ready reference to product developers, researchers and students working on sensor design and fabrication.

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provides perspective on both current and future research.

Emerging Trends in Electrical, Communications, and Information Technologies

T. Hitendra Sarma
2019-09-24 This book includes original, peer-reviewed research from the 3rd International Conference on Emerging Trends in Electrical, Communication and Information Technologies (ICECIT 2018), held at Srinivasa Ramanujan Institute of Technology, Ananthapuramu, Andhra Pradesh, India in December 2018. It covers the latest research trends and developments in the areas of Electrical Engineering, Electronic and Communication Engineering, and Computer Science and Information.

Metrology for Inclusive Growth of India
K. Aswal 2020-11-09 This book describes the significance of metrology for inclusive growth in India and explains its application in the areas of

physical-mechanical engineering, electrical and electronics, Indian standard time measurements, electromagnetic radiation, environment, biomedical, materials and Bhartiya Nirdeshak Dravyas (BND®). Using the framework of "Aswal Model", it connects the metrology, in association with accreditation and standards, to the areas of science and technology, government and regulatory agencies, civil society and media, and various other industries. It presents critical analyses of the contributions made by CSIR-National Physical Laboratory (CSIR-NPL), India, through its world-class science and apex measurement facilities of international equivalence in the areas of industrial growth, strategic sector growth, environmental protection, cybersecurity, sustainable energy, affordable health, international

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policy-making, etc. The book will be useful for science and engineering students, researchers, policymakers and entrepreneurs.

Battery Safety Daniel H. Doughty 2015-12-28

Embedded System Design

Peter Marwedel
2010-11-16 Until the late 1980s, information processing was associated with large mainframe computers and huge tape drives. During the 1990s, this trend shifted toward information processing with personal computers, or PCs. The trend toward miniaturization continues and in the future the majority of information processing systems will be small mobile computers, many of which will be embedded into larger products and interfaced to the physical environment. Hence, these kinds of systems are called embedded systems. Embedded systems together with their physical environment are called cyber-physical systems. Examples include systems

such as transportation and fabrication equipment. It is expected that the total market volume of embedded systems will be significantly larger than that of traditional information processing systems such as PCs and mainframes. Embedded systems share a number of common characteristics. For example, they must be dependable, efficient, meet real-time constraints and require customized user interfaces (instead of generic keyboard and mouse interfaces). Therefore, it makes sense to consider common principles of embedded system design. Embedded System Design starts with an introduction into the area and a survey of specification models and languages for embedded and cyber-physical systems. It provides a brief overview of hardware devices used for such systems and presents the essentials of system software for embedded systems, like

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operating systems. The book also discusses evaluation and validation techniques for embedded systems. Furthermore, the book presents an overview of techniques for mapping applications to execution platforms. Due to the importance of resource efficiency, the book also contains a selected set of optimization techniques for embedded systems, including special compilation techniques. The book closes with a brief survey on testing. Embedded System Design can be used as a text book for courses on embedded systems and as a source which provides pointers to relevant material in the area for PhD students and teachers. It assumes a basic knowledge of information processing hardware and software. Courseware related to this book is available at <http://ls12-www.cs.tu-dortmund.de/~marwedel>.

4th International Conference on Internet of Things and Connected

Technologies (ICIOTCT), 2019 Neeta Nain
2020-02-14 This book presents the proceedings of the 4th International Conference on Internet of Things and Connected Technologies (ICIOTCT), held on May 9-10, 2019, at Malaviya National Institute of Technology (MNIT), Jaipur, India. The Internet of Things (IoT) promises to usher in a revolutionary, fully interconnected "smart" world, with relationships between objects and their environment and objects and people becoming more tightly intertwined. The prospect of the Internet of Things as a ubiquitous array of devices bound to the Internet could fundamentally change how people think about what it means to be "online". The ICIOTCT 2019 conference provided a platform to discuss advances in Internet of Things (IoT) and connected technologies, such as various protocols and standards. It also offered participants the

opportunity to interact with experts through keynote talks, paper presentations and discussions, and as such stimulated research. With the recent adoption of a variety of enabling wireless communication technologies, like RFID tags, BLE, ZigBee, embedded sensor and actuator nodes, and various protocols such as CoAP, MQTT and DNS, IoT has moved on from its infancy. Today smart sensors can collaborate directly with machines to automate decision-making or to control a task without human involvement. Further, smart technologies, including green electronics, green radios, fuzzy neural approaches, and intelligent signal processing techniques play an important role in the development of the wearable healthcare devices.

Intelligent and Fuzzy Techniques for Emerging Conditions and Digital Transformation Cengiz Kahraman 2021-08-23 This book presents recent

research in intelligent and fuzzy techniques. Emerging conditions such as pandemic, wars, natural disasters and various high technologies force people for significant changes in business and social life. The adoption of digital technologies to transform services or businesses, through replacing non-digital or manual processes with digital processes or replacing older digital technology with newer digital technologies through intelligent systems is the main scope of this book. It focuses on revealing the reflection of digital transformation in our business and social life under emerging conditions through intelligent and fuzzy systems. The latest intelligent and fuzzy methods and techniques on digital transformation are introduced by theory and applications. The intended readers are intelligent and fuzzy systems researchers.

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lecturers, M.Sc. and Ph.D. students studying digital transformation. Usage of ordinary fuzzy sets and their extensions, heuristics and metaheuristics from optimization to machine learning, from quality management to risk management makes the book an excellent source for researchers.

Never Far Away Michelle Rodriguez 2013-11-01
Never Far Away is a short story and resource for the parent who has a child that doesn't like to separate from them when time for school or work. It has illustrative pictures and content for the parent and child to interact before they go about their day.

Sustainable Air Conditioning Systems

Chaouki Ghenai 2018-06-13
Air conditioning system is one of the major consumers of electrical energy in many parts of the world today. It represents between 40 and 70% of the energy

consumption in commercial buildings. The demand of energy for air conditioning systems is expected to increase further in the next decades due to the population growth, the new economic boom, and the urbanization development. The rapid growth of air conditioning and electricity consumption will contribute further to climate change if fossil and nonrenewable resources are used. More energy-efficient and renewable energy-based air conditioning systems to accomplish space cooling are needed. This book intends to provide the reader with a comprehensive overview of the current state of the art in sustainable air conditioning technologies and focus on the most recent research and development on green air conditioning systems including energy-efficient and renewable energy-based air conditioning systems.