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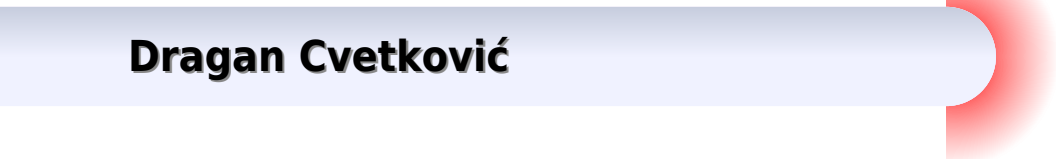


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Space, people and technology Amira Osman, Geci Karuri-Sebina, 2023-08-25 In this book there is a call on built environment professionals to reflect on the role of narrative in shaping space influencing people and making decisions about technology It is argued that by changing the narrative and methods of representations new imaginaries can be generated and the scope of what is possible is significantly broadened Contextualized narratives vocabularies and metaphors can evoke new thinking and new practice This book looks for examples where professionals and communities have jointly worked together from the precinct to the site level The authors are especially inspired by the ideas of tinkering muddling through engaging with the mess and gnarly planning concepts that encourage experimentation and engagement with real life contexts learning through doing policy change through evolutionary processes and a hands on approach This book aims to elevate our understanding of the concepts of people centred participation and co production co creation by shifting the debate from the esoteric to the applied and contextual We believe that practice can only be transformed by transforming thinking Through the development of our own philosophies emerging from and rooted in context we may shift thinking and practice towards people community and care

Hydrogen Purification and Separation Mohammad Reza Rahimpour, Mohammad Amin Makarem, Parvin Kiani, 2024-11-06 The purification of hydrogen is necessary to fulfill purity standards of a wide variety of prospective uses and it is also a key concern regarding the efficient supply of hydrogen Hydrogen Purification and Separation reviews various hydrogen separation methods as well as membranes used in hydrogen separation It discusses absorption and adsorption methods as well as novel technologies such as cryogenic methods and plasma assisted technology and the related economic assessments and environmental challenges Introduces miscellaneous membrane assisted processes for hydrogen separation Provides different physiochemical absorption methods for hydrogen purification Discusses application of sorbents and swing technologies in hydrogen purification Uniquely covers hydrogen separation using novel methods Includes economic assessments and environmental challenges of hydrogen purification in detail Part of the multivolume Handbook of Hydrogen Production and Applications this standalone book guides researchers and academics in chemical environmental energy and related areas of engineering interested in development and implementation of hydrogen production technologies

Transactions on Engineering Technologies Haeng Kon Kim, Sio-Long Ao, Mahyar A. Amouzegar, 2014-07-02 This volume contains fifty six revised and extended research articles written by prominent researchers participating in the congress Topics covered include electrical engineering chemical engineering circuits computer science communications systems engineering mathematics systems engineering manufacture engineering and industrial applications This book offers theoretical advances in engineering technologies and presents state of the art applications It also serves as an excellent source of reference for researchers and graduate students working with on engineering technologies Advanced Manufacturing Techniques Using Laser Material Processing Akinlabi, Esther Titilayo, Mahamood, Rasheedat

Modupe,Akinlabi, Stephen Akinwale,2016-04-14 The use of lasers in material processing has become a useful method for transforming industrial materials into finished products The benefits of laser material processing are vast including increased precision high processing speed and dustless cutting and drilling Advanced Manufacturing Techniques Using Laser Material Processing explores the latest methodologies for using lasers in materials manufacturing and production the benefits of using lasers in industrial settings as well as future outlooks for this technology This innovative publication is an essential reference source for professionals researchers and graduate level students studying manufacturing technologies and industrial engineering

Research Data Access and Management in Modern Libraries Bhardwaj, Raj Kumar,Banks, Paul,2019-05-15 Handling and archiving data should be done in a highly professional and quality controlled manner For academic and research libraries it is required to know how to document data and support traceability as well as to make it reusable and productive However these institutions have different requirements relating to the archiving and reusability of data Therefore a comprehensive source of information is required to understand data access and management within these organizations Research Data Access and Management in Modern Libraries is a critical scholarly resource that delves into innovative data management strategies and strategy implementation in library settings and provides best practices to stakeholders using the latest tools and technology It further explores concepts such as research data management data access data preservation building document and data institutional repositories applications of Web 2 0 tools mobile technology applications in data access and conducting information literacy programs This book is ideal for librarians information specialists research scholars students IT managers computer scientists policymakers educators and academic administrators

Water Safety, Security and Sustainability Ashok Vaseashta,Carmen Maftai,2021-07-14 This book focuses on threats especially contaminants to drinking water and the supply system especially in municipalities but also in industrial and even residential settings The safety security and suitability landscape can be described as dynamic and complex stemming from necessity and hence culpability due to the emerging threats and risks vis a vis globalization resulting in new forms of contaminants being used due to new technologies The book provides knowledge and guidance for engineers scientists designers researchers and students who are involved in water sustainability and study of security issues This book starts out with basics of water usage current statistics and an overview of water resources The book then introduces different scenarios of safety and security and areas that researchers need to focus Following that the book presents different types of contaminants inadvertent intentional or incidental The next section presents different methodologies of contamination sensing detection and remediation strategies as per guidance and standards set globally The book then concludes with selected chapters on water management including critical infrastructure that is critical to maintaining safe water supplies to cities and municipalities Each chapter includes descriptive information for professionals in their respective fields The breadth of chapters offers insights into how science physical natural and social and technology can support new developments to manage the complexity resident within

the evolving threat and risk landscape **E-Systems for the 21st Century** Seifedine Kadry, Abdelkhalak El Hami, 2019-07-10 E based systems and computer networks are becoming standard practice across all sectors including health engineering business education security and citizen interaction with local and national government With contributions from researchers and practitioners from around the world this two volume book discusses and reports on new and important developments in the field of e systems covering a wide range of current issues in the design engineering and adoption of e systems **The Promise of Small and Medium Enterprises** Ana Arroio, Mario Scerri, 2018-10-24 This series of books brings together results of an extensive research programme on aspects of the national systems of innovation NSI in the five BRICS countries Brazil Russia India China and South Africa It provides a comprehensive and comparative examination of the challenges and opportunities faced by these dynamic and emerging economies In discussing the impact of innovation with respect to economic geopolitical socio cultural institutional and technological systems it reveals the possibilities of new development paradigms for equitable and sustainable growth This volume third in the series looks at the relationship between small and medium enterprises SMEs and the National Systems of Innovation in the BRICS countries It brings to fore crucial issues in the evolution and future trends of industrial or innovation policies for small firms their scope applicability co ordination and main results as well as the influence of macroeconomic legal and regulatory environments Taking into account the specificities and complexities of SMEs production and innovation systems it seeks to inform research policy design and implementation in the field Original and detailed data together with expert analyses on wide ranging issues make this book an invaluable resource for researchers and scholars in economics development studies and political science in addition to policy makers and development practitioners interested in the BRICS countries ***Polymer Nanocomposites for Advanced Engineering and Military Applications*** Ramdani, Nouredine, 2019-04-01 The field of polymer nanocomposites has become essential for engineering and military industries over the last few decades as it applies to computing sensors biomedical microelectronics hard coating and many other domains Due to their outstanding mechanical and thermal features polymer nanocomposite materials have recently been developed and now have a wide range of applications Polymer Nanocomposites for Advanced Engineering and Military Applications provides emerging research on recent advances in the fabrication methods properties and applications of various nano fillers including surface modification methods and chemical functionalization Featuring coverage on a broad range of topics such as barrier properties biomedical microelectronics and matrix processing this book is ideally designed for engineers industrialists chemists government officials military professionals practitioners academicians researchers and students ***Circular Economy*** Maulin P. Shah, Suvendu Manna, Papita Das, 2024-08-23 The reclamation of wastewater and other essential materials is among the major research areas for understanding the effects of implementing a circular economic model The re use and re cycling of wastewater can greatly reduce the overall demand for freshwater for various industrial applications Such concepts could potentially greatly

reduce the overall water demands of our planet if implemented successfully Circular Economy Applications for Water Remediation will examine the current understanding of the circular economy in water remediation processes its drawbacks and relatively unexplored areas that require further research This book Provides an overview of the processes available to extract value added materials from wastewater such as clean water nutrients and energy Explores the possibilities of re using wastewater for agricultural uses Provides an overview of the current policies and regulations concerning the implementation of circular economy concepts in wastewater remediation

Design and Applications of Nanostructured Polymer Blends and Nanocomposite Systems Sabu Thomas,Robert Shanks,Sarath Chandran,2015-09-22 Design and Applications of Nanostructured Polymer Blend and Nanocomposite Systems offers readers an intelligent thorough introduction to the design and applications of this new generation of designer polymers with customized properties The book assembles and covers in a unified way the state of the art developments of this less explored type of material With a focus on nanostructured polymer blends the book discusses the science of nanostructure formation and the potential performance benefits of nanostructured polymer blends and composites for applications across many sectors electronics coatings adhesives energy photovoltaics aerospace automotive and medical devices biocompatible polymers The book also describes the design morphology and structure of nanostructured polymer composites and blends to achieve specific properties Covers all important information for designing and selecting the right nanostructured polymer system Provides specialized knowledge on self repairing nanofibre and nanostructured multiphase materials as well as evaluation and testing of nanostructured polymer systems Serves as a reference guide for development of new products in industries ranging from electronics coatings and energy to transport and medical applications Describes the design morphology and structure of nanostructured polymer composites and blends to achieve specific properties

Tourism in Rural Protected Areas Kaitano Dube,Ikechukwu O. Ezeuduji,Magdalena Petronella Swart,2025-06-30 Despite its potential to unlock socio economic benefits in rural and protected areas in a manner that addresses the Sustainable Development Goals SDG rural and protected areas tourism is yet to be thoroughly examined by academics scholars practitioners and policymakers This lack of exploration has undermined the potential benefits associated with tourism development in rural and protected areas Given the complexity of rural tourism this contributed volume explores current and future debates on the subject using cases in Southern Africa The book is useful for various audiences including tourism academics planners cultural and heritage practitioners and rural development planners The topics covered include gender transformation service delivery visitor experience wildlife tourism and host community tourism interaction

Cases on Transnational Learning and Technologically Enabled Environments Mukerji, Siran,Tripathi, Purnendu,2010-03-31 This book offers case studies on divergent themes addressing the core perspective of technological adaptability and transnational learning Provided by publisher

Augmented Reality and Its Application Dragan Cvetković,2022-03-16 Augmented Reality AR is a discipline that includes

the interactive experience of a real world environment in which real world objects and elements are enhanced using computer perceptual information It has many potential applications in education medicine and engineering among other fields This book explores these potential uses presenting case studies and investigations of AR for vocational training emergency response interior design architecture and much more

Understanding and mitigating cyberfraud in Africa Oluwatoyin E. Akinbowale, Mariann P. Mashigo, Mulatu F. Zerihun, 2024-06-30 The book covers the overview of cyberfraud and the associated global statistics It demonstrates practicable techniques that financial institutions can employ to make effective decisions geared towards cyberfraud mitigation Furthermore the book contains some emerging technologies such as information and communication technologies ICT forensic accounting big data technologies tools and analytics employed in fraud mitigation In addition it highlights the implementation of some techniques such as the fuzzy analytical hierarchy process FAHP and system thinking approach to address information and security challenges The book combines a case study empirical findings a systematic literature review and theoretical and conceptual concepts to provide practicable solutions to mitigate cyberfraud The major contributions of this book include the demonstration of digital and emerging techniques such as forensic accounting for cyber fraud mitigation It also provides in depth statistics about cyber fraud its causes its threat actors practicable mitigation solutions and the application of a theoretical framework for fraud profiling and mitigation

Advanced Coating Materials Liang Li, Qing Yang, 2018-11-15 Provides a comprehensive yet practical source of reference and excellent foundation for comparing the properties and performance of coatings and selecting the most suitable materials based on specific service needs and environmental factors Coating technology has developed significant techniques for protecting existing infrastructure from corrosion and erosion maintaining and enhancing the performance of equipment and provided novel functions such as smart coatings greatly benefiting the medical device energy automotive and construction industries The mechanisms usage and manipulation of cutting edge coating methods are the focus of this book Not only are the working mechanisms of coating materials explored in great detail but also craft designs for further optimization of more uniform safe stable and scalable coatings A group of leading experts in different coating technologies demonstrate their main applications identify the key bottlenecks and outline future prospects Advanced Coating Materials broadly covers the coating techniques including cold spray plasma vapor deposition chemical vapor deposition sol gel method etc and their significant applications in microreactor technology super de wetting joint implants electrocatalyst etc Numerous kinds of coating structures are addressed including nanosize particles biomimicry structures metals and complexed materials along with the environmental and human compatible biopolymers resulting from microbial activities This state of the art book is divided into three parts 1 Materials and Methods Design and Fabrication 2 Coating Materials Nanotechnology and 3 Advanced Coating Technology and Applications

Resource Recovery and Recycling from Waste Metal Dust Daniel Ogochukwu Okanigbe, Abimbola Patricia Popoola, 2023-03-15 This book examines resource recovery and

recycling from waste metal dust including currently used techniques for waste processing and recycling and their applications with practical examples and economic potentials of the processes The focus of this book is on resource recovery by suitable treatments and techniques including those of recovery by products For the first time this book provides a comprehensive one stop reference including seminal principles and methods the advantages and disadvantages of the processes discussed and the economics of the technology It will serve as a technical reference for working scientists and engineers while serving as an educational reference to students studying the waste recovery of metals

Functionalized Nanomaterials for Cancer Research Hamed Barabadi,Ebrahim Mostafavi,Chaudhery Mustansar Hussain,2024-03-22

Functionalized Nanomaterials for Cancer Research Applications in Treatments Tools and Devices presents an in depth and step by step description of knowledge on functionalized nanomaterials for cancer research including treatment and future developments as well as their impact on patients overall outcomes The book discusses the functionalized nanoplatforms for cancer detection and imaging interactions between nanomaterials and cancer cells and drug resistant malignancies The chapters are organized in a manner that can be readily adopted as sources for new and further studies by highlighting the main in vitro and in vivo nano therapeutic achievements on cancer Additionally current trends on functionalized nanomaterials for cancer research and commercial scale opportunities are discussed It is a valuable resource for researchers oncologists students and members of the biomedical and medical fields who want to learn more about the potential of nanotechnology in cancer research and treatment Provides comprehensive coverage on functionalized nanomaterials for cancer therapeutics and future developments Explores current trends on functionalized nanomaterials for cancer research and commercial scale opportunities Discusses real world case studies on functionalized nanomaterials for cancer therapy and research

Growing Information: Part 2 Eli B. Cohen,2009

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