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Radek Silhavy



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Additive Manufacturing: Materials, Processes, Quantifications and Applications Jing Zhang, Yeon-Gil Jung, 2018-05-17 Additive Manufacturing Materials Processes Quantifications and Applications is designed to explain the engineering aspects and physical principles of available AM technologies and their most relevant applications It begins with a review of the recent developments in this technology and then progresses to a discussion of the criteria needed to successfully select an AM technology for the embodiment of a particular design discussing material compatibility interfaces issues and strength requirements The book concludes with a review of the applications in various industries including bio energy aerospace and electronics This book will be a must read for those interested in a practical comprehensive introduction to additive manufacturing an area with tremendous potential for producing high value complex individually customized parts As 3D printing technology advances both in hardware and software together with reduced materials cost and complexity of creating 3D printed items these applications are quickly expanding into the mass market Includes a discussion of the historical development and physical principles of current AM technologies Exposes readers to the engineering principles for evaluating and quantifying AM technologies Explores the uses of Additive Manufacturing in various industries most notably aerospace medical energy and electronics Crossing the Bridge of the Digital Divide Anthony H. Normore, Antonia Issa Lahera, 2018-09-01 Crossing the Bridge of the Digital Divide A Walk with Global Leaders explores the combined effect of the rapid growth of information as an increasingly fragmented information base a large component of which is available only to people with money and or acceptable institutional affiliations In the recent past the outcome of these challenges has been characterized as the digital divide between the information haves and have nots along racial and socio economic lines that seem to widen as time passes To address the issues of digital equity and digital inequality in an effort to bridge the digital divide educational scholars researchers and practitioners are in positions to ensure equitable opportunities are made available for people of all ages races ability sexual orientation and ethnicity in support of social justice for bridging the digital divide The digital divide addresses issues concerning equal opportunity equity and access that have an effect on the development of marginalized and otherwise disenfranchised populations within and across systems nationally and internationally The contributing authors representing United States Canada South Africa New Zealand and the UK posit that education institutions can serve as the bridge to close the digital divide for students who do not have access to information technology in their homes At a time when more computers are made available in schools than ever before the digital divide continues to widen and fewer people in the lowest SES groups are given the opportunity to join the world of computer technology and the internet As a result the influence of leadership activity on institutional racism gender discrimination inequality of opportunity inequity of educational processes digital exclusion and justice have gained currency and attention The contributing national and international authors examine the digital divide in terms of social

justice leadership equity and access It is within this context that the authors offer discussions from a lens of their choice i e conceptual review of literature epistemological etc By adopting an educational approach to bridging the digital divide researchers and practitioners can connect and extend long established lines of conceptual and empirical inquiry aimed at improving organizational practices and thereby gain insights that might be otherwise overlooked or assumed This holds great promise for generating refining and testing theories of leadership for equity and access and helps strengthen already vibrant lines of inquiry on social justice

Energy Technology 2018 Ziqi Sun,Cong Wang,Donna Post Guillen,Neale R Neelameggham,Lei Zhang,John A. Howarter,Tao Wang,Elsa Olivetti,Mingming Zhang,Dirk Verhulst,Xiaofei Guan,Allie Anderson,Shadia Ikhmayies,York R. Smith,Amit Pandey,Sarma Pisupati,Huimin Lu,2018-01-30 This collection focuses on energy efficient technologies including innovative ore beneficiation smelting technologies recycling and waste heat recovery The volume also covers various technological aspects of sustainable energy ecosystems processes that improve energy efficiency reduce thermal emissions and reduce carbon dioxide and other greenhouse emissions Papers addressing renewable energy resources for metals and materials production waste heat recovery and other industrial energy efficient technologies new concepts or devices for energy generation and conversion energy efficiency improvement in process engineering sustainability and life cycle assessment of energy systems as well as the thermodynamics and modeling for sustainable metallurgical processes are included This volume also includes topics on CO2 sequestration and reduction in greenhouse gas emissions from process engineering sustainable technologies in extractive metallurgy as well as the materials processing and manufacturing industries with reduced energy consumption and CO2 emission Contributions from all areas of non nuclear and non traditional energy sources such as solar wind and biomass are also included in this volume Papers from the following symposia are presented in the book Energy Technologies and CO2 ManagementAdvanced Materials for Energy Conversion and Storage Deriving Value from Challenging Waste Streams Recycling and Sustainability Joint SessionSolar Cell SiliconStored Renewable Energy in Coal

ICEL2104-Proceedings of the 9th International Conference on e-Learning Dr Oscar Saavedra Rodriguez,,Dr Teresita Arenas Yáñez,2014

Challenges of European External Energy Governance with Emerging Powers Michèle Knodt,Nadine Piefer,2016-03-03 In a multipolar world with growing demand for energy not least by Emerging Powers such as Brazil India China or South Africa BICS questions of EU external energy governance would at first hand appear to be a high priority Yet reality tells a different story the EU s geographical focus remains on adjacent countries in the European neighbourhood and on issues related to energy security Despite being Strategic Partners and engaging in energy dialogues it seems that the EU is lacking strategic vision and is not perceived as a major actor in energy cooperation with the BICS Thus political momentum for energy cooperation and joint governance of scarce resources is vanishing Resulting from three years of international interdisciplinary research cooperation among academics and practitioners in Europe and the BICS countries within a project funded by the Volkswagen

Foundation this volume addresses one of the greatest global challenges Specific focus lies on the bilateral energy dialogues and Strategic Partnerships between the EU and Emerging Powers regarding bilateral inter and transnational energy cooperation Furthermore the analysis provides policy recommendations in order to tap the full potential of energy cooperation between the EU and Brazil India China and South Africa **COVID-19, Tourist Destinations and Prospects for Recovery** Kaitano Dube,Godwell Nhamo,MP Swart,2023-03-01

The COVID 19 pandemic had a devastating impact on tourist destinations in developing and developed countries Though the entire globe was impacted the short and long term implications for tourism as well as prospects for recovery vary across regions This volume showcases research on the impact of COVID 19 on tourism from across the world The book is divided into three parts with the stage set by an introductory chapter that will provide a background and context Part I contains chapters that explore the impact of COVID 19 on selected international tourist destinations Part II showcases how various hotspots across the world adjusted to the new normal under pandemic conditions Part III is a collection of chapters that address how various destinations are attempting to recover from the shocks of the COVID 19 pandemic The concluding chapter written by the editors seeks to synthesize the lessons offered in the book and provide policy and practical implementation for the tourism industry and other important tourism stakeholders

Contextualised Critical Reflections on Academic Development Practices Teboho Pitso,2021-04-20 This book offers insightful reflections on academic development practices The contributors engage the reader painstakingly in the dynamics of professional learning and effective teaching This volume facilitates the examination of the need for reflection that leads to professional maturity All educational institutions seek teachers who continuously search for effective strategies in improving student success The contributors uncover a variety of approaches as they evince proven suggestions The chapters are refreshing and edifying This book is essential for all teachers lecturers and trainers who want to improve their teaching practice immensely Professor Vuyisile T Msila Researcher at the Thabo Mbeki African School of Public and International Affairs University of South Africa *Corrupted* Jonathan D Jansen,2023-02

Through investigatory reports and interviews Jonathan Jansen reveals the structural conditions for chronic dysfunction in a sample of South African universities He reveals the political economy at work and the intense competition for resources on campuses He also provides

interventions for these fragile institutions **Potentiality of “Kinyankole” Cultural-Resources, Practices for Promotion of Tourism, Uganda** Mackline Ninsiima,Njue Michael,2025-07-13 The book is set out to present the potential of Kinyankole cultural resources practices for promotion as a tourism product in Uganda The book has been developed using data collected from a study that took place in Mbarara and Kiruhura districts in Uganda in East Africa for the period ranging 2020 and 2021 East Africa and aimed to achieve the following specific goals to identify Kinyankole cultural resources that can be included in tourism products to look into Kinyankole practices that can be part of tourism products and to uncover untapped aspects of Kinyankole culture that could be added to tourism products The book is dividend in to four chapters

Chapter one which introduces the book chapter two with literature review Chapter three presents methodology and analysis of data as well as presentation While chapter four presents final conclusions and recommendations

Tourism Safety, Security and Resilience Rami K. Isaac, Shem Wambugu Maingi, Vanessa GB Gowresunkaar, 2024-11-18 This significant volume critically explores the implications of tourism safety and security and how communities in tourism destinations try to be resilient in the face of these impacts Written by leading scholars this book offers new insight into the conceptual and practical knowledge of community resilience due to tourism security and safety issues Chapters examine these topics through an integrated community perspective to provide comprehensive consideration of the interconnected facets of a community encompassing social economic environmental and cultural dimensions when evaluating and addressing matters pertaining to tourism management safety security and resilience This book is structured around different conceptual theoretical and practical strategies employed by destinations to foster and sustain community resilience particularly during periods of crises as well as communities in the context of tourism recovery It examines this across geographical borders and in many different contexts not just locations of tourism or types of tourism such as religious tourism and different types of crises including natural disasters pandemics and terrorism This book is an essential reading for all tourism students

researchers and academics as well as for those interested in conflict and crises recovery

Revaluation and Preservation of Indigenous Knowledge Systems in Modern Society Masenya, Tlou Maggie, Bhuda, Monicca Thulisile, 2025-05-08

Indigenous Knowledge can be used to integrate education in today's society honoring and respecting the diversity of knowledge sources and fostering an inclusive and fair learning environment This increases cultural pride and consequently the drive to find creative solutions to local problems using resources and inventiveness that are available locally Indigenous people have important knowledge about the ecosystem in the area and how best to manage its natural resources A growing number of people outside of indigenous knowledge systems are interested in them as a result of the current global ecological catastrophe and the understanding that overuse of natural resources arises from unsuitable attitudes and technology Indigenous Knowledge is the basis from which alternative ways of managing resources can be developed using indigenous technologies that are cost effective and economically affordable

Revaluation and Preservation of Indigenous Knowledge Systems in Modern Society contributes to the role of indigenous knowledge in the contemporary society by focusing on the preservation promotion and dissemination of indigenous knowledge Covering topics such as food security intellectual property protection and biocultural community protocols this book is an excellent resource for knowledge managers records managers indigenous knowledge owners indigenous communities librarians computer scientists data curators sociologists anthropologists policymakers government officials professionals researchers scholars academicians and more

Technology Development and Platform Enhancements for Successful Global E-Government Design Bwalya, Kelvin Joseph, 2013-12-31

While electronic research has developed in many governments around the world the majority of its research has focused on

the supply and demand aspects of e government instead of the focus on technology integration for successful e government design Technology Development and Platform Enhancements for Successful Global E Government Design compiles the shared experiences of e government designers and practitioners with a focus on technological design By highlighting the different technological nuances that need to be incorporated into successful e government designs this book is a useful tool for professionals and researchers concerned with the organizational development in different types of e government communities and environments

Proceedings of IAC 2018 in Vienna Group of Authors,2018-07-02 International Academic Conferences Teaching Learning and E learning IAC TLEI 2018 and Management Economics and Marketing IAC MEM 2018 and Engineering Transport IT and Artificial Intelligence IAC ETITAI 2018

Paper-based Diagnostics Kevin J. Land,2018-12-11 This book explores the status of paper based diagnostic solutions or Microfluidics 2 0 The contributors explore how paper based tests can be widely distributed and utilized by semi skilled personnel how close to commercial applications the technology has become and what is still required to make paper based diagnostics the game changer it can be The technology is examined through the lens of the World Health Organization s ASSURED criteria for low resource countries Affordable Sensitive Specific User friendly Rapid and robust Equipment free and Deliverable to end users Its applications have to include health technology environmental technology food safety and more This book is appropriate for researchers in these areas as well as those interested in microfluidics and includes chapters dedicated to principles such as theory of flow and surface treatments components such as biomarkers and detection and current methods of manufacturing Discusses how paper based diagnostics can be used in developing countries by comparing current diagnostic tests with the World Health Organization s ASSURED criteria Examines how paper based diagnostics could be integrated with other technologies such as printed electronics and the Internet of Things Outlines how semi skilled personnel across a variety of fields can implement paper based diagnostics

Bioplastics for Sustainability Ajay Kumar Mishra,Chaudhery Mustansar Hussain,2024-02-02 Bioplastics for Sustainability Manufacture Technologies and Environment offers an innovative approach to bioplastics integrating state of the art materials and technologies with detailed analysis of lifecycle recycling circularity and environmental impact of bioplastics and enabling circular utilization and successful scale up of bioplastics The book begins by introducing the fundamentals of bioplastics including biodegradable compostable and oxodegradable materials and discusses the various factors involved in encouraging commercial uptake of these materials The second part of the book highlights cutting edge approaches to the production of bioplastics covering novel sources such as microalgae and organic waste and solutions for industrial scale manufacturing Other sections cover the environmental impact of bioplastics and routes to environmentally friendly usage and more This is a valuable resource for researchers and advanced students across polymer science sustainable materials plastics engineering materials science chemistry environmental science and engineering In an industrial setting this book supports engineers scientists and R D professionals with an interest in

sustainable manufacture and application of bioplastics across a range of products parts and industries Presents the latest advances in novel materials and manufacture techniques for bioplastics Focuses on sustainable use of bioplastics assessing biodegradability life cycle recycling waste and environmental impact Addresses other key considerations such as industrial scale up commercialization policies and regulation **Software Engineering Perspectives in Systems** Radek

Silhavy,2022-07-16 The study of software engineering and its applications to system engineering is critical in computer science research Modern research methodologies as well as the use of machine and statistical learning in software engineering research are covered in this book This book contains the refereed proceedings of the Software Engineering Perspectives in Systems part of the 11th Computer Science On line Conference 2022 CSOC 2022 which was held in April 2022 online Redefining Education and Development Kaitano Dube,2024-10-18 The book aligns with the United Nations Sustainable Development Goals SDGs particularly Goal 4 which focuses on quality education It explores the evolving role of education as a critical driver for achieving all 17 SDGs by providing a platform for discussing innovative educational models and theories that foster sustainable development The book takes an interdisciplinary approach merging educational theory developmental practice and human psychology to address complex global challenges hindering sustainable development The book includes case studies and empirical research such as exploring student entrepreneurship in the agricultural sector and the factors bridging the gap between entrepreneurial intention and venture creation These examples provide readers with practical applications of theoretical concepts and demonstrate the real world impact of educational innovations which is at the core of education delivery for all and how education touches on other areas of the SDGs The book offers valuable insights for policymakers educators and development practitioners by presenting research and theory based analyses It suggests ways to improve the academic environment to foster entrepreneurship and innovation which are key to economic development and job creation especially in regions with high youth unemployment rates The content suggests educational reforms that are responsive to the changing societal and economic landscapes The book s blend of theory and practice targets a broad audience including academic scholars students development agencies non governmental organisations and policymakers It seeks to engage these diverse readers in a conversation about the future of education and its role in achieving sustainable development In summary the book seeks to provide a comprehensive exploration of the nexus between education development and human needs in the context of the SDGs offering innovative perspectives and practical solutions to equip readers to contribute to sustainable global development Theory, Research and Dynamics of Career Wellbeing

Ingrid L. Potgieter,Nadia Ferreira,Melinde Coetzee,2019-09-18 This volume offers a new conceptualization of career wellbeing by viewing the construct as an individual s long term contentment with their career outcomes career achievements career changes and their sustainable employability amidst the complexities of the contemporary and emerging future digital driven work environment In support of this view of career wellbeing the volume constructs theoretical frameworks for future

fit career wellbeing in the digital driven work life context The chapters juxtaposition current research trends in terms of future potential directions for research on career wellbeing in Industry 4 0 The volume also critically evaluates the relevance applicability and utility of the research findings and theoretical premises in various current versus potential Industry 4 0 settings for individuals across the life span It offers valuable suggestions for practice and interventions

Microbial Biotechnology: Integrated Microbial Engineering for B3 - Bioenergy, Bioremediation, and Bioproducts Maulin P. Shah, Kiran Bala, 2025-05-15 This book highlights the latest advancements in microbial biotechnology and its crucial role in promoting sustainable development across three key areas bioenergy bioremediation and bioproducts It emphasizes the potential of microbes as renewable sustainable resources capable of generating high value products and acting as efficient alternatives to conventional methods Key topics included algal bacterial and fungal biotechnology focusing on producing biomass and valuable metabolites through CO2 sequestration concurrent bioremediation resource recovery and environmental sustainability This book presents cutting edge information on how integrated microbial engineering can valorize waste while sustainably generating essential resources Additionally it explores how microbes can help address critical challenges such as resource depletion and pollution management offering solutions for a more sustainable future Explores cutting edge technologies in microbial biotechnology including the production of high value products using microbes such as bacteria fungi and algae Elucidates strategies like mycoremediation microbial degradation and integrated CO2 sequestration with bioremediation to address pressing environmental challenges Understanding the potential of algae and purple bacteria in waste valorization and circular economy models including biodiesel production and wastewater treatment Provides comprehensive information on the emerging therapeutic possibilities of microbial systems and their role in disease control Examines the role of microbes in enhancing plant growth as biofertilizers contributing to sustainable agricultural practices and improved regional water quality through microbial bioremediation

Software Engineering Perspectives in Intelligent Systems Radek Silhavy, Petr Silhavy, Zdenka Prokopova, 2020-12-15 This book constitutes the refereed proceedings of the 4th Computational Methods in Systems and Software 2020 CoMeSySo 2020 proceedings Software engineering computer science and artificial intelligence are crucial topics for the research within an intelligent systems problem domain The CoMeSySo 2020 conference is breaking the barriers being held online CoMeSySo 2020 intends to provide an international forum for the discussion of the latest high quality research results

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Vaal University Of Technology 2014 Clossing Date**

In a world inundated with screens and the cacophony of instantaneous connection, the profound power and mental resonance of verbal beauty often diminish into obscurity, eclipsed by the constant assault of noise and distractions. However, nestled within the musical pages of **Vaal University Of Technology 2014 Clossing Date**, a captivating perform of literary elegance that pulses with natural feelings, lies an memorable trip waiting to be embarked upon. Composed with a virtuoso wordsmith, this enchanting opus instructions readers on a psychological odyssey, lightly revealing the latent possible and profound affect embedded within the complex internet of language. Within the heart-wrenching expanse with this evocative evaluation, we can embark upon an introspective exploration of the book is key subjects, dissect their captivating writing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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