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### **Bioresource Technology** Springer Nature

South Africa has made huge gains in ensuring universal enrolment for children at school, and in restructuring and recapitalising the FET college sector. However, some three million young people are not in education, employment or training and the country faces serious challenges in providing its youth with the pathways and support they need to transition successfully into a differentiated system of post-school education and training. Across nine evidence-based chapters, 17 authors offer a succinct overview of the different facets of post-school provision in South Africa. These include an analysis of the impact of the national qualifications system on occupational training, the impact of youth unemployment, the capacity of the post-school system to absorb larger numbers of young people, the relationship between universities and FET colleges, the need for more strategic public and private investment in skills development, and a youth perspective on education and training policy. The authors have a number of recommendations for improving the alignment between schooling, further education and training, and university education - interventions that could shape the future of our youth.

### *Mechanical Engineering* CRC Press

This book presents select peer-reviewed proceedings of the International Conference on Sustainable Development in Energy and Environment (ICSDEE) 2019. The focus is on novel research in renewable energy resources and environmental issues and their implementation in augmenting sustainable development. This book includes chapters on solutions to problems faced by countries across the globe in the energy sector, pollution treatment processes, and other socially relevant topics like the possibility of extracting energy from the inexhaustible waste stream, waste disposal, waste management etc. This book will be useful for students, researchers as well as professionals interested in sustainable technologies, green energy, and biotechnology.

### **Smart 3D Nanoprinting** Springer Nature

The Maritime Engineering Reference Book is a one-stop source for engineers involved in marine engineering and naval architecture. In this essential reference, Anthony F. Molland has brought together the work of a number of the world's leading writers in the field to create an inclusive volume for a wide audience of marine engineers, naval architects and those involved in marine operations, insurance and other related fields. Coverage ranges from the basics to more advanced topics in ship design, construction and operation. All the key areas are covered, including ship flotation and stability, ship structures, propulsion, seakeeping and maneuvering. The marine environment and maritime safety are explored as well as new technologies, such as computer aided ship design and remotely operated vehicles (ROVs). Facts, figures and data from world-leading experts makes this an invaluable ready-reference for those involved in the field of maritime engineering. Professor A.F. Molland, BSc, MSc, PhD, CEng, FRINA. is Emeritus Professor of Ship Design at the University of Southampton, UK. He has lectured ship design and operation for many years. He has carried out extensive research and published widely on ship design and various aspects of ship hydrodynamics. \* A comprehensive overview from best-selling authors including Bryan Barrass, Rawson and Tupper, and David Eyres \* Covers basic and advanced material on marine engineering and Naval Architecture topics \* Have key facts, figures and data to hand in one complete reference book

### **Advanced Polymer Nanocomposites** Springer Nature

Advanced Polymer Nanocomposites Woodhead Publishing

Surface Engineering of Graphene CRC Press

The First Odisha Conference (ODICON 2021) aims to bring together

researchers, scientists, engineers, and scholar students to exchange and share their experiences, new ideas, and research results about all aspects of Engineering, Science and technology especially relevant to sustainable and clean energy In addition to the discussions during the conference, ample opportunities will be available for interaction with professionals and researchers to share the operational experiences and views on the key issues in Renewable Energy, Power Engineering and Power Electronics technology, communication engineering, smart grid, computational intelligence, IoT etc

Advances in Mechanical Engineering and Material Science Springer Nature

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

Innovative Product Design and Intelligent Manufacturing Systems Springer Nature

Functional Materials Processing for Switchable Device Modulation focuses on the advances of nanofabrication that underpin emerging technologies, including electronic devices. The book provides readers with a broad view of the materials' perspectives, including historical context and background, along with future opportunities for smart electronic and switchable devices. A major focus in the book is on the research and development of synthetic materials for spectroscopic analysis which broadly deals with science and technology of materials on the atomic and molecular scale. The book reviews the materials and advances in research for switchable electronics for bioelectronic, sensing and optoelectronic applications. In addition, key challenges and emerging opportunities in innovations in surface modification and novel functional materials device implementation for industrial scale reproducibility are discussed. The book covers the applications and market potential for a variety of media, including mirrors, glazing/coatings, and display products. The physics, electrochemistry, device design and materials are detailed, with performance compared between the most relevant and emerging switchable technologies. Addresses the most interesting advances in switchable devices for bioelectronics, electronics, optoelectronics and sensing applications Includes a special emphasis on materials design, processing and fabrication of switchable devices to realize large-scale industry applications Compares the performance of existing innovative switchable devices Reviews the remaining barriers to commercialization, along with opportunities to address these challenges

Processing of Green Composites Springer Nature

This book has an important role in advancing non-classical materials on the macro and nanoscale. The book provides original, theoretical, and important experimental results. Some research uses non-routine methodologies often unfamiliar to some readers. Furthermore, papers on novel applications of more familiar experimental techniques and analyses o

Materials Science and Engineering Springer

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.

Materials Science and Engineering. Volume I Springer

This book gathers a collection of papers by international experts that were presented at the International Conference on NextGen Electronic Technologies (ICNETS2-2016). ICNETS2 encompassed six symposia covering all aspects of the electronics and communications domains, including relevant nano/micro materials and devices. Highlighting the latest

research on nanoelectronic materials and devices, the book offers a valuable guide for researchers, practitioners and students working in the core areas of functional electronics nanomaterials, nanocomposites for energy application, sensing and high strength materials and simulation of novel device design structures for ultra-low power applications.

The Maritime Engineering Reference Book Woodhead Publishing

This book presents selected papers from the International Conference on Advances in Materials Processing and Manufacturing Applications (iCADMA 2020), held on November 5–6, 2020, at Malaviya National Institute of Technology, Jaipur, India. iCADMA 2020 proceedings is divided into four topical tracks – Advanced Materials, Materials Manufacturing and Processing, Engineering Optimization and Sustainable Development, and Tribology for Industrial Application.

Recent Advances in Manufacturing Processes and Systems CRC Press

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.

Recent Advances in Mechanical Engineering Springer Nature

Attitude, Self-efficacy and English communication skills become an integral part to provide appropriate careers to students. Learners suffer from low self-efficacy which is an impediment in their involvement in learning tasks. Poor learning strategies diminish their motivation and consequently their language proficiency. It has been proved that self-efficacy is used an instrument to amplify positive attitude among learners towards English Communication Skills. There is a positive relationship among the attitude, self-efficacy and English language achievement of learners. It provides a framework to understand communication practices of engineering students in India. This book aims to help the language practitioners and educators to look for concrete ways to assist learners to develop a positive attitude and learn more effectively by empowering them to take ownership of learning and to manage their own learning.

Practical Engineer Elsevier

This book presents select proceedings of 2nd International Conference on Recent Advances in Manufacturing (RAM 2021). The book provides insights into the current research trends and development in manufacturing processes. The topics covered include conventional and nonconventional manufacturing processes, micro and nano manufacturing processes, chemical and biochemical manufacturing, additive manufacturing, smart manufacturing, and sustainable and energy-efficient manufacturing. The contributions presented here are intended to stimulate new research directions in the manufacturing domain. This book will be useful for the beginners, researchers and professionals working in the area of industrial and production engineering and allied fields.

Universities and Entrepreneurship Springer Nature

Advanced Polymer Nanocomposites: Science Technology and Applications presents a detailed review of new and emerging research outcomes from fundamental concepts that are relevant to science, technology and advanced applications. Sections cover key drivers such as the rising demand for lightweight and high strength automotive parts, the need for sustainable packaging materials and conservation of flavor in the food, drinks and beverages industries, and defense initiatives such as ballistic protection, fire retardation and electromagnetic shielding. With contributions from international authors working at the cutting-edge of research, this book will be an essential reference resource for materials scientists, chemists, manufacturers and polymer engineers. Through recent advances in nanotechnology, researchers can now manipulate atoms to create materials and products that are changing the way we live our lives. These materials have enhanced

properties, such as tensile strength, impact and scratch resistance, electrical and thermal conductivity, thermal stability and fire resistance. Combines processing, properties and advanced commercial applications Emphasizes synthesis and fabrication techniques Focuses on environmental and health aspects Covers future challenges, opportunities, recycling and sustainability Contains contributions from high-profile, cutting-edge international researchers

Sustainable Development in Energy and Environment Springer Nature

This book presents the select proceedings of the International Conference on Thermofluids and Manufacturing Science (ICTMS 2022). Some of the topics covered include Heat transfer, fluid dynamics, multiphase flow, flow diagnostics using artificial neural network, aerodynamics, high-speed flows, sustainable energy technology, propulsion and emissions, Eco-friendly manufacturing, Coating Techniques and Supply chain management etc. Given the scope, the book will be highly useful for researchers and professionals interested in mechanical, production or aerospace engineering

Recent Trends in Mechanical Engineering Springer Nature

This book presents select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2020). The book focuses on latest research in mechanical engineering design and covers topics such as computational mechanics, finite element modeling, computer aided engineering and analysis, fracture mechanics, and vibration. The book brings together different aspects of engineering design and the contents will be useful for researchers and professionals working in this field.

Advances in Materials Processing and Manufacturing Applications African Minds

This book presents the select proceedings of the conference of Innovative Product Design and Intelligent Manufacturing System (IPDIMS 2020), held at the National Institute of Technology, Rourkela, India. The book addresses latest methods and advanced tools from different areas of design and manufacturing technology. The main topics covered include computational methods for robotics, mechatronics and human-computer interaction; computer-aided design, manufacturing and engineering; aesthetics, ergonomics and UX/UI design; smart manufacturing and expert systems. The contents of this book will be useful for researchers as well as professionals working in the areas of industrial design, mechatronics, robotics, and automation.

Shaping the Future of South Africa's Youth Springer Nature

This volume highlights the latest developments and trends in advanced non-classical materials and structures. It presents the developments of advanced materials and respective tools to characterize and predict the material properties and behavior. It also includes original, theoretical, and important experimental results that use non-routine methodologies often unfamiliar to the usual readers. The chapters on novel applications of more familiar experimental techniques and analyses of composite problems underline the need for new experimental approaches.

Polymer-Based Composites Blue Rose Publishers

Bioresource Technology Discover the latest developments in the field of bioresource technology with this practical handbook The management and cultivation of bioresources are critical components of the economic survival of nations. Significantly underexplored, recent advances in bioresource technologies have breathed new life into the research and development of new bioresource techniques and capabilities. In Bioresource Technology: Concept, Tools, and Experiences, a team of distinguished researchers delivers a comprehensive work intended to bridge the gap between field-oriented taxonomists and ecologists and lab-oriented functional and molecular biologists. The book is divided into three sections: food, environment, and energy. In the first part, the authors explore the functional food sector, from green and smart food packaging to nanosensors as diagnostic tools in the food industry. The second part is concerned with the achievement of future energy security through the use of bioresources as energy sources. Finally, the third section discusses sustainable environmental management policies via bioresource use. Readers will also benefit from the inclusion of: A thorough introduction on the recent advances in the technology pertaining to functional food industry to overcome the future food challenges Comprehensive explorations of the art and science of growing microgreens, including their historical background, cultivation practices, quality, and shelf life In-depth examinations of the bioprospecting of bioresources, including bioprospecting in agriculture, chemical industries, and diagnostic applications Provides state-of-the-art technologies in the green energy sector to cater for the energy demand of the people, reducing greenhouse gases (GHG) and the reliance on fossil fuels In-depth understanding on the recent advances in the bioresource management policies and sustainable environment Perfect for postgraduate students, research

scholars, faculty, and scientists involved in agriculture, plant sciences, environmental sciences, bioenergy, biofuels, molecular biology, and microbiology, Bioresource Technology: Concept, Tools, and Experiences is also an indispensable resource for those working in biochemistry, biotechnology, and food technology.