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Plant and Animal Based Composites Advances in Functional and Smart Materials Advanced Surface Coating Techniques for Modern Industrial Applications Advances in Manufacturing Engineering Advances in Material Science and Engineering Advances in Material Science and Engineering Polymer-Silica Based Composites in Sustainable Construction Thin Film Coatings Modern Manufacturing Processes Nanomaterials and Nanocomposites Engineering Pedagogy Towards Outcome-Based Education Sputtered Thin Films Thin Film Coatings Fused Deposition Modeling Fostering Meaningful Learning Experiences Through Student Engagement Design, Development, and Optimization of Bio-Mechatronic Engineering Products Methodologies and Outcomes of Engineering and Technological Pedagogy Handbook of Research on Advancements in Manufacturing, Materials, and Mechanical Engineering Handbook of Research on Critical Issues in Special Education for School Rehabilitation Practices LEADERSHIP GENETIC ENGINEERING FORMULA: Proceedings of the 10th World Congress on Engineering Asset Management (WCEAM 2015) New Trends in Model and Data Engineering Handbook of Research on Environmental Education Strategies for Addressing Climate Change and Sustainability Stories of women Corruption in Higher Education Dedan Kimathi Handbook of Research on Advancements in the Processing, Characterization, and Application of Lightweight Materials Additive Manufacturing Applications for Metals and Composites Ngugi and Mugo's "The Trial of Dedan Kimathi Advances in Phytochemistry, Textile and Renewable Energy Research for Industrial Growth Global Healthcare Disasters Writers in Politics Zambia Trade Directory Braby's Commercial Directory of Southern Africa Science, Technology and Innovation Policies for Inclusive Growth in Africa More Matata Advancing Africa's Sustainable Development The Rough Guide to Kenya Kenya Gazette Association of Consulting Engineers Who's who & Year Book

In engineering, there are often situations in which the material of the main component is unable to sustain long life or protect itself from adverse operating environments. Moreover, in some cases, different material properties such as anti-friction and wear, anti-corrosive, thermal resistive, super hydrophobic, etc. are required as per the operating conditions. If those bulk components are made of such materials and possess those properties, the cost will be very high. In such cases, a practical solution is surface coating, which serves as a protective barrier to the bulk material from the adverse environment. In the last decade, with enormous effort, researchers and scientists have developed suitable materials to overcome those unfavorable operating conditions, and they have used advanced deposition techniques to enhance the adhesion and surface texturing of the coatings. Advanced Surface Coating Techniques for Modern Industrial Applications is a highly sought reference source that compiles the recent research trends in these new and emerging surface coating materials, deposition techniques, properties of coated materials, and their applications in various engineering and industrial fields. The book particularly focuses on 1) coating materials including anti-corrosive materials and nanomaterials, 2) coating methods including thermal spray and electroless disposition, and 3) applications such as surface engineering and thin film application. The book is ideal for engineers, scientists, researchers, academicians, and students working in fields like material science, mechanical engineering, tribology, chemical and corrosion science, bio-medical engineering, biomaterials, and aerospace engineering. The recent COVID-19 global pandemic exemplifies the need for efficient, reliable, and real-time tools and technology for forecasting and predicting healthcare disasters as well as for helping to restrict the subsequent spread and fatality of deadly diseases. This new book discusses many of the innovative and state-of-the-art tools and technology that can help meet the challenges of predicting such disasters. The chapters offer a plethora of useful information for designing healthcare disaster management systems that can be dynamically configurable with implementation of today's modern technology, such as cloud computing, artificial intelligence, IoT, data analytics, and machine learning. These can increase effectiveness in remote sensing technologies, data analytics, data storage, communication networks, geographic information system (GIS), and global positioning System (GPS), to name a few. This book discusses mathematical models using graph-based approaches for analyzing dynamic, heterogeneous, and unstructured data for applications in epidemiology. The authors also address the use of mobile applications for communication efforts and remote monitoring for gauging health and the effectiveness of preventive healthcare measures. The chapters discuss influencing factors that directly or indirectly target public health infrastructure that can lead to or exacerbate global health crises, such as extreme climate changes, refugee health crises, terrorism and cyberterrorism, and technology-related incidents. The book further looks at efficient methods to analyze disasters and how to deliver healthcare in areas of conflict and crisis. This important volume, Global Healthcare Disasters: Predicting the Unpredictable with Emerging Technologies, provides a bounty of useful information for health professionals, academicians, researchers, governmental agencies, and policymakers across the world to predict, mitigate, and manage global health disaster with emerging technologies. Thin Film Coatings: Properties, Deposition, and Applications discusses the holistic subject of conventional and emerging thin film technologies without bias to a specific technology based on the existing literature. It covers properties and delves into the various methods of thin film deposition, including the most recent techniques and a direction for future developments. It also discusses the cutting-edge applications of thin film coatings such as self-healing and smart coatings, biomedical, hybrid, and scalable thin films. Finally, the concept of Industry 4.0 in thin film coating technology is examined. This book: Explores a wide range and is not specific to material and method of deposition Demonstrates the application of thin film coatings in nearly all sectors, such as energy and anti-microbial applications Details the preparation and properties of hybrid and scalable (ultra) thin materials for advanced applications Provides detailed bibliometric analyses on applications of thin film coatings Discusses Industry 4.0 and 3D printing in thin film technology With its broad coverage, this comprehensive reference will appeal to a wide audience of materials scientists and engineers and others studying and developing advanced thin film technologies. Sputtered Thin Films: Theory and Fractal Descriptions provides an overview of sputtered thin films and demystifies the concept of fractal theory in analysis of sputtered thin films. It simplifies the use of fractal tools in studying the growth and properties of thin films during sputtering processes. Part 1 of the book describes the basics and theory of thin film sputtering and fractals. Part 2 consists of examples illustrating specific descriptions of thin films using fractal methods. Discusses thin film growth, structure, and properties Covers fractal theory Presents methods of fractal measurements Offers typical examples of fractal descriptions of thin films grown via magnetron sputtering processes Describes application of fractal theory in prediction of thin film growth and properties This reference book is aimed at engineers and scientists working across a variety of disciplines including materials science and metallurgy as well as mechanical, manufacturing, electrical, and biomedical engineering. Engineering pedagogy is closely linked to both the technical and the pedagogical sciences. Over the years, engineering pedagogy has shifted from practical education to teaching how to integrate information, computational, and communications technology. However, while pedagogical and psychological qualifications are highly important requirements for a teaching career in engineering, the research on engineering pedagogy remains scant and scattered across journal articles, conference proceedings, workshop notes, and official reports. Methodologies and Outcomes of Engineering and Technological Pedagogy is a collection of innovative research building on the available literature that examines engineering pedagogy while providing resources necessary for policymaking, implementation, and continuous improvement. Featuring coverage on a wide range of topics including curriculum development, teaching and learning styles, and inclusivity, this book is ideally designed for educators, engineers, curriculum developers, instructional designers, managers, industry professionals, academicians, policymakers, researchers, and students. Biomechanical engineering is involved with creating and producing a variety of products in everyday use, from environmentally safe plastics to various foods, fabrics, and medicines. A combination of engineering and biology, it is a fast-growing field with many new and exciting opportunities in genetic engineering and biotechnology. However, research surrounding biomechanical applications is scattered and often restricted, leading to the need for a comprehensive publication of the recent advances and developments in this emerging field. Design, Development, and Optimization of Bio-Mechatronic Engineering Products provides pivotal research on the application of combining mechanical engineering with human biological systems in order to develop bio-mechatronic products like pacemakers, artificial kidney replacements, artificial hearts, and new joints or limbs to better and more accurately monitor and advance human health. While highlighting topics such as orthotic devices, inter-electrode gap, and biomaterial applications, this publication explores producing artificial material to work in sync with the human body. This book is ideally designed for engineers, health professionals, technology developers, researchers, academicians, and students. This book presents selected papers from the 6th International Conference on Mechanical, Manufacturing and Plant Engineering (ICMMP 2020), held virtually via Google Meet. It highlights the latest advances in the emerging area, brings together researchers and professionals in the field and provides a valuable platform for exchanging ideas and fostering collaboration. Joining technologies could be changed to manufacturing technologies. Addressing real-world problems concerning joining technologies that are at the heart of various manufacturing sectors, the respective papers present the outcomes of the latest experimental and numerical work on problems in soldering, arc welding and solid-state joining technologies. Modern Manufacturing Processes draws on the latest international research on traditional and non-traditional practices, to provide valuable advice on the digitization and automation of the manufacturing industry. In addition to providing technical details for the correct implementation of the latest tools and practices, the impacts on productivity and design quality are also examined. The thorough classification of manufacturing processes will help readers to decide which technology is most effective for their requirements, and comparisons between modern and traditional methods will clarify the case for upgrading. This comprehensive assessment of technologies will include additive manufacturing, and industry 4.0, as well as hybrid methods where exceptional results have been gained through the use of traditional technology. This collection of work by academics at the cutting edge of manufacturing research will help readers from a range of backgrounds to understand and apply these new technologies. Explains how the correct implementation of modern manufacturing processes can help a factory gain the characteristics of an industry 4.0 business Explores what the main technical and business drivers for new manufacturing processes are today Provides detailed classifications and comparisons of traditional, non-traditional, and hybrid manufacturing processes This book presents the select proceedings of the International Conference on Functional Material, Manufacturing and Performances (ICFMP 2021), and aims to provide a comprehensive and broad-spectrum picture of the state-of-the-art research, development, and commercial prospective of various discoveries conducted in the real-world materials science applications. Various topics covered include materials science and engineering, materials property and characterization, materials applications, performance, and life cycle, ferrous and non-ferrous materials, composites, nanomaterials, ceramics and glasses, feature engineering, polymers, etc. The book will be a valuable reference for beginners, researchers, and professionals interested in materials engineering and allied fields. This book presents the application of Polymer-Silica Based Composites in the Construction Industry providing the fundamental framework and knowledge needed for the sustainable and efficient use of these composites as building and structural materials. It also includes characterization of prepared materials to ascertain mechanical, chemical, and physical properties and analyses results obtained using similar methods. Topics such as life cycle analysis of plastics, application of plastics in construction and elimination of plastic wastes are also discussed. The book also provides information on the outlook and competitiveness of emerging composites materials. Covers theory, preparation and characterizations of polymer-silica based composites for green construction. Discusses technology, reliability, manufacturing cost and environmental impact. Reviews the classification, application, and processing of polymer-silica composites. Gives a deeper analysis on the various tests carried out on polymer-silica composite. Highlights role of such composites in the Industry 4.0 and emerging technologies. This book is aimed at graduate students and researchers in civil engineering, built environment, construction materials, and materials science. Thin Film Coatings: Properties, Deposition, and Applications discusses the holistic subject of conventional and emerging thin film technologies without bias to a specific technology based on the existing literature. It covers properties and delves into the various methods of thin film deposition, including the most recent techniques and a direction for future developments. It also discusses the cutting-edge applications of thin film coatings such as self-healing and smart coatings, biomedical, hybrid, and scalable thin films. Finally, the concept of Industry 4.0 in thin film coating technology is examined. This book: Explores a wide range and is not specific to material and method of deposition Demonstrates the application of thin film coatings in nearly all sectors, such as energy and anti-microbial applications Details the preparation and properties of hybrid and scalable (ultra) thin materials for advanced applications Provides detailed bibliometric analyses on applications of thin film coatings Discusses Industry 4.0 and 3D printing in thin film technology With its broad coverage, this comprehensive reference will appeal to a wide audience of materials scientists and engineers and others studying and developing advanced thin film technologies. The International Conference on Phytochemistry, Textile, & Renewable Energy Technologies for Sustainable Development (ICPTRE 2020) was hosted by the World bank funded Africa Centre of Excellence in Phytochemicals, Textile and Renewable Energy (ACEII-PTRE) based at Moi University in conjunction with Donghua University, China and the Sino-Africa International Symposium on Textiles and Apparel (SAISTA). The theme of the conference was Advancing Science, Technology and Innovation for Industrial Growth. The research relationships between universities and industry have enabled the two entities to flourish and, in the past, have been credited for accelerated sustainable development and uplifting of millions out poverty. ICPTRE 2020 therefore provided a platform for academic researchers drawn from across the world to meet key industry professionals and actively share knowledge while advancing the role of research in industrial development, particularly, in the developing nations. The conference also provided exhibitors with an opportunity to interact with professionals and showcase their business, products, technologies and equipment. During the course of the conference, industrial exhibitions, research papers and presentations in the fields of phytochemistry, textiles, renewable energy, industry, science, technology, innovations and much more were presented. In this book, fused deposition modeling (FDM) is described with focus on product quality control and enhancement. The book begins by introducing the basics of FDM and its associated process parameters. Then, strategies for quality control and enhancement are described using case studies of both original results by the authors and from published literature. Resolution and print orientation, multi-objective optimizations and surface engineering are identified and discussed as the strategies for enhancing the quality of FDM products in this book. Production, new materials development, and mechanics are the central subjects of modern industry and advanced science. With a very broad reach across several different disciplines, selecting the most forward-thinking research to review can be a hefty task, especially for study in niche applications that receive little coverage. For those subjects, collecting the research available is of utmost importance. The Handbook of Research on Advancements in Manufacturing, Materials, and Mechanical Engineering is an essential reference source that examines emerging obstacles in these fields of engineering and the methods and tools used to find solutions. Featuring coverage of a broad range of topics including fabricating procedures, automated control, and material selection, this book is ideally designed for academics; tribology and materials researchers; mechanical, physics, and materials engineers; professionals in related industries; scientists; and students. This book comprises refereed papers from the 10th World Congress on Engineering Asset Management (WCEAM 2015), held in Tampere, Finland in September 2015. These proceedings include a compilation of state-of-the-art papers covering a comprehensive range of subjects equally relevant to business managers and engineering professionals alike. With a focus on various aspects of engineering asset management ranging from strategic level issues to detail-level machine health issues, these papers address both industry and public sector concerns and issues, as well as advanced academic research. Proceedings of the WCEAM 2015 is an excellent reference and resource for asset management practitioners, researchers and academics, as well as undergraduate and postgraduate students at tertiary institutions or in the industry. This book is the omega of volume 1 titled Why Leaders Fail and Plunge the Innocent into a Sea of Agonies; hence, its justified designation as volume 2. Its purpose is to complete the marathon research expedition commenced by volume 1 (alfa) to search for the mysteries surrounding and being responsible for man's chronic failure in the art of leadership, which has consequently always plunged the innocent under a failed leader into a sea of various acute agonies throughout all generations. In this regard, this volume is an etiology and prognosis of leadership failure epidemic that has evaded recognition of every past research effort to unlock and paralyze those mysteries responsible for its existence. Using this double-edged methodology and burning ambition, the volume systematically

and vigorously synthesizes the root causes of this virus into a coherent body of knowledge that has, in the end, led to formulation of a leadership genetic engineering formula viz: elite and grass root conflict vaccination, able to provide humanity with an enabling environment of a hybrid culture requisite for good governance, democracy, and prosperity for all. This formula is a function of the discovery of a similar formula formulated and used by the ancient Egyptian people (7000-5000 BC), which enabled them to develop into an extraordinary hybrid culture and good leadership that, in turn, led them into a nation of immense prosperity, surpassing all other nations of their generation in Asia Minor and the Mediterranean. Hence, the unique significance of the research efforts contained in this volume 2 in its capacity as a long-lived breakthrough for social sciences--and political science, in particular--against the scourge of bad leadership to humanity. And hence, its justification as an omega of this marathon research expedition. Corruption in Higher Education: Global Challenges and Responses discusses the magnitude of this phenomenon, its complexity, and the actions that are needed to mitigate it. Family, friendship, race, terrorism and love, all play their part in this engaging story. 'Matata' means trouble in Swahili, and falling in love across racial barriers is big matata, especially in Kenya, a segregated country seething with tensions after the Second World War. Lando, whisked out of Goa and back to Kenya, finds himself enrolled in a non-Catholic Asian school on the edge of an African residential area, just as the Mau Mau, a secret organization determined to overthrow the colonial government, is slowly spreading its grip of terror from the far-off White-Settler occupied Highlands, into the urban areas, around Lando's school and allegedly into his home when British forces round up Mwangi (the houseboy), his wife Wangari, their 7-year old Stephen and the baby. They disappear without trace. Exams at the time of the Mau Mau prove a challenge. Meanwhile the Winds of Change are already gusting across Africa and the rest of the colonized world. In a few years the Portuguese and British are forced to give up their colonies in India and East Africa respectively, and just as the racial barriers fall, the Goans who have lived under colonial rulers for over 450 years, are left rudderless and stateless, and have to make hard choices. In spite of all this matata, Lando and the beautiful Saboti meet again under extraordinary circumstances, and that is the biggest matata of them all. Bottom of Form Nanomaterials and Nanocomposites: Characterization, Processing, and Applications discusses the most recent research in nanomaterials and nanocomposites for a range of applications as well as modern characterization tools and techniques. It deals with nanocomposites that are dispersed with nanosized particulates and carbon nanotubes in their matrices (polymer, metal, and ceramic). In addition, the work: Describes different nanomaterials, such as metal and metal oxides, clay and POSS, carbon nanotubes, cellulose, and biobased polymers in a structured manner Examines the processing of carbon nanotube-based nanocomposites, layered double hydroxides, and cellulose nanoparticles as functional fillers and reinforcement materials Covers size effect on thermal, mechanical, optical, magnetic, and electrical properties Details machining and joining aspects of nanocomposites Discusses the development of smart nanotextiles (intelligent textiles), self-cleaning glass, sensors, actuators, ferrofluids, and wear-resistant nanocoatings. This book enables an efficient comparison of properties and capabilities of these advanced materials, making it relevant for materials scientists and chemical engineers conducting academic research and industrial R&D into nanomaterial processing and applications. This book constitutes the thoroughly refereed papers of the workshops held at the 9th International Conference on New Trends in Model and Data Engineering, MEDI 2019, in Toulouse, France, in October 2019. The 12 full and the three short workshop papers presented together with one invited paper were carefully reviewed and selected from 35 submissions. The papers are organized according to the 3 workshops: Workshop on Modeling, Verification and Testing of Dependable Critical systems, DETECT 2019, Workshop on Data Science for Social Good in Africa, DSSGA 2019, and Workshop on Security and Privacy in Models and Data, TRIDENT 2019. In the automotive industry, the need to reduce vehicle weight has given rise to extensive research efforts to develop aluminum and magnesium alloys for structural car body parts. In aerospace, the move toward composite airframe structures urged an increased use of formable titanium alloys. In steel research, there are ongoing efforts to design novel damage-controlled forming processes for a new generation of efficient and reliable lightweight steel components. All these materials, and more, constitute today's research mission for lightweight structures. They provide a fertile materials science research field aiming to achieve a better understanding of the interplay between industrial processing, microstructure development, and the resulting material properties. The Handbook of Research on Advancements in the Processing, Characterization, and Application of Lightweight Materials provides the recent advancements in the lightweight mat materials processing, manufacturing, and characterization. This book identifies the need for modern tools and techniques for designing lightweight materials and addresses multidisciplinary approaches for applying their use. Covering topics such as numerical optimization, fatigue characterization, and process evaluation, this text is an essential resource for materials engineers, manufacturers, practitioners, engineers, academicians, chief research officers, researchers, students, and vice presidents of research in government, industry, and academia. This electronic version has been made available under a Creative Commons (BY-NC-ND) open access license. Elleke Boehmer's work on the crucial intersections between independence, nationalism and gender has already proved canonical in the field. 'Stories of women' combines her keynote essays on the mother figure and the postcolonial nation, with incisive new work on male autobiography, 'daughter' writers, the colonial body, the trauma of the post-colony, and the nation in a transnational context. Focusing on Africa as well as South Asia, and sexuality as well as gender, Boehmer offers fine close readings of writers ranging from Achebe, Okri and Mandela to Arundhati Roy and Yvonne Vera, shaping these into a critical engagement with theorists of the nation like Fredric Jameson and Partha Chatterjee. This edition will be of interest to readers and researchers of postcolonial, international and women's writing; of nation theory, colonial history and historiography; of Indian, African, migrant and diasporic literatures, and is likely to prove a landmark study in the field. The Kenya Gazette is an official publication of the government of the Republic of Kenya. It contains notices of new legislation, notices required to be published by law or policy as well as other announcements that are published for general public information. It is published every week, usually on Friday, with occasional releases of special or supplementary editions within the week. Educators are continuously seeking ways to engage their students in active learning processes and are faced with challenges that include engaging students in learning activities, promoting meaningful learning experiences, and providing effective experiences for every student. Studies that investigate instructors' experiences are limited since more focus is given to students. Future research calls for teachers' innovative contributions in introducing new strategies and teaching approaches to further involve students, increase student attendance in online sessions, and employ a variety of technological tools. Fostering Meaningful Learning Experiences Through Student Engagement is an essential reference source for the latest scholarly information on curriculum development, instructional design, and pedagogical methods for fostering student engagement learning initiatives. The book examines engagement and meaningful learning techniques in both face-to-face and online instruction. Covering topics that include active learning, language learning, teacher experiences, and teacher-student relationships, this book is ideally designed for teachers, instructional designers, curriculum developers, academicians, researchers, professionals, and students that believe that stronger or improved student engagement should be their instructional objectives and wish to engage students in learning activities that promote meaningful learning experiences. Additive manufacturing (AM) of metals and composites using laser energy, direct energy deposition, electron beam methods, and wire arc melting have recently gained importance due to their advantages in fabricating the complex structure. Today, it has become possible to reliably manufacture dense parts with certain AM processes for many materials, including steels, aluminum and titanium alloys, superalloys, metal-based composites, and ceramic matrix composites. In the near future, the AM material variety will most likely grow further, with high-performance materials such as intermetallic compounds and high entropy alloys already under investigation. Additive Manufacturing Applications for Metals and Composites is a pivotal reference source that provides vital research on advancing methods and technological developments within additive manufacturing practices. Special attention is paid to the material design of additive manufacturing of parts, the choice of feedstock materials, the metallurgical behavior and synthesis principle during the manufacturing process, and the resulted microstructures and properties, as well as the relationship between these factors. While highlighting topics such as numerical modeling, intermetallic compounds, and statistical techniques, this publication is ideally designed for students, engineers, researchers, manufacturers, technologists, academicians, practitioners, scholars, and educators. This book highlights the recent research works on mechanical, manufacturing and plant engineering presented during the 7th International Conference on Mechanical, Manufacturing and Plant Engineering (ICMMPE 2021) held on 29th November 2021. It highlights the latest advances in the emerging areas, brings together researchers and professionals in the field and provides a valuable platform for exchanging ideas and fostering collaboration. Addressing real-world problems concerning joining technologies that are at the heart of various manufacturing sectors, the respective papers present the outcomes of the latest experimental and numerical work on problems in soldering, arc welding and solid-state joining technologies. The Rough Guide to Kenya is the essential travel guide to East Africa's biggest travel destination. The Rough Guide to Kenya is the ultimate companion for coping with cosmopolitan Nairobi; trekking through the northern deserts; going on safari in Samburu, Amboseli or Tsavo national parks and crossing the Great Rift Valley in a four-wheel-drive, inspired by dozens of photos. The guide unearths the best safaris, sites, hotels, lodges, camps, restaurants, and nightlife across every price range and offers experienced advice on everything from diving the coral reef to visiting Swahili ruins and flying over the savannah. You'll find specialist coverage of Kenyan history, wildlife, music and literature plus insider tips on visiting Barack Obama's ancestral village of Kogelo. Explore all corners of Kenya with authoritative background on everything from Indian Ocean beaches to safaris in Maasai Mara and climbing Mount Kenya, relying on handy language tips and the clearest maps of any guide. Whether you're heading on a two-week safari or visiting the country to work be sure to eat, drink and talk like a Kenyan with this must-have guide. Make the most of your holiday with The Rough Guide to Kenya. With the growing environment and consciousness of "outcome-based education," the importance of this subject has increased manifold. Unfortunately, there is little information on engineering pedagogy available outside of scattered journal articles, conference and symposium proceedings, workshop notes, and government and company reports. This book overcomes these difficulties by presenting, in a single volume, many of the recent advances in the field of engineering pedagogy and its recent developments. Engineering Pedagogy Towards Outcome-Based Education provides a systematic approach to explicit fundamentals as well as recent advances in the area. It incorporates various case studies for major topics as well as numerous academic examples. Each chapter contains many state-of-the-art techniques required for practical engineering applications. This book serves as a useful source of information for practicing academicians and specialists as well as academic institutions working on the subject. Due to the increasing trend of international interest in education for climate change and the environment, there has been an increase of research in the area. There is a current question on what the best methods and tools are for integrating climate change education and sustainability into school programs. These educational methods can create the development of effective responses, attitudes, and behaviors to adapt to climate change. Empirical and conceptual models must be explored to help those interested in learning and teaching environmental education and climate change and adding it to modern school curriculum. The Handbook of Research on Environmental Education Strategies for Addressing Climate Change and Sustainability produces innovative approaches, methods, and ideas in education for climate change, environment strategies, and sustainability along with the development of curriculum and strategies for sustainable development goals. The chapters encompass multiple disciplines such as geology, geography, remote sensing, geographic information systems, environmental science, and environmental engineering. This book is ideal for in-service and preservice teachers, administrators, teacher educators, practitioners, stakeholders, researchers, academicians, and students interested in educational strategies and curriculum for climate change and sustainability. The increasing demand for environmentally friendly materials and the need for cheaper fibres points the search in the direction of natural products such as bark, leaves, scales or shells. The aim of this book is to provide a forum to review the recent advances in the area of plant and animal-based composites and identify possible trends for further developments. The Trial Of Dedan Kimathi Is An Important African Protest Play. It Is Based On Historical Facts And Depicts How Kenya Won Its Independence Through The Sacrifices Of Heroes Like Dedan Kimathi. The Present Book Offers A Comprehensive Study Of The Play, Covering Thematic And Technical Aspects. This book presents selected papers from the 5th International Conference on Mechanical, Manufacturing and Plant Engineering (ICMMPE 2019), held in Kuala Lumpur, Malaysia. It highlights the latest advances in the area, brings together researchers and professionals in the field and provides a valuable platform for exchanging ideas and fostering collaboration. Joining technologies could be change to manufacturing technologies. Addressing real-world problems concerning joining technologies that are at the heart of various manufacturing sectors, the respective papers present the outcomes of the latest experimental and numerical work on problems in soldering, arc welding and solid-state joining technologies. technologies. technologies. technologies. technologies. technologies. technologies. technologies. The volume analyses how to make Science, Technology and Innovation (STI) Policies relevant for inclusive growth strategies in Africa. The base for a transformative STI policy is to link the STI policies to Africa's economic transformation policies. In a first part the general issues of introducing effective STI policies are presented. In a second part country case studies highlight the new approach. Cases such as Sudan and Nigeria are analysed, as these two countries have a long history of STI development; because of different history, size and structure they need to move in different directions towards a coherent STI policy for inclusive growth. Rehabilitation professionals working with students with disabilities and the families of those students face unique challenges in providing inclusive services to special education student populations. There needs to be a focus on adaptive teaching methods that provide quality experience for students with varying disabilities to promote student success and inclusivity. Critical issues within these practices span autism, diverse students, gifted education, learning disabilities, behavioral and emotional disorders, and more. With having many different types of students with vastly different situations, it is important for rehabilitation professionals to understand the best practices and learning systems for special education students who have a wide range of needs and challenges. The Handbook of Research on Critical Issues in Special Education for School Rehabilitation Practices focuses on the issues and challenges rehabilitation professionals face in special education and how they can provide inclusive and effective services to diverse student populations. This book highlights topics such as culturally responsive teacher preparation, artificial intelligence in the classroom, universal design, inclusive development, and school rehabilitation and explores the effects these newfound practices in education have on various types of students with disabilities. This book is essential for special education teachers, administrators, counselors, practitioners, researchers, academicians, and students interested in the new methods, theories, and solutions for the best practices in inclusive and effective special education. While many African countries lag behind the rest of the industrialised world in scientific and medical research and development, the situation is progressively improving. This is why the Society for the Advancement of Science in Africa was established, to contribute to economic advancement and sustainability through science research, education and innovation. This book provides a selection of papers from the Advancement of Science in Africa's fourth annual conference. The conference was held under the overarching theme of 'science, technology and innovation in Africa', with several important sub-themes, including, but not limited to, improving health research and disease surveillance education; collaborating in research responding to epidemic diseases with high mortality in Africa; and promoting women's interest in science careers. The collection illustrates how, although the chapter contributors come from various countries and universities, representing their own academic research, they all share a common interest in advancing science, technology and innovation in Africa.