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Dr.Vijaya K Rangari is a professor at Tuskegee University's Materials Science and Engineering department, Rangri received his Ph.D in Polymer Chemistry from Osmania University, India and a...

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Piezoelectric Materials and Devices: Applications in Engineering and Medical Sciences provides a complete overview of piezoelectric materials, covering all aspects of the materials starting from fundamental concepts. The treatment includes physics of piezoelectric materials, their characteristics and applications. The author uses simple language to explain the theory of piezoelectricity and introduce readers to the properties and design of different types of piezoelectric materials, such as those used in engineering and medical device applications. This book: Introduces various types of dielectrics and their classification based on their characteristics Addresses the mathematical formulation of piezoelectric effects and the definition of various piezoelectric constants Describes the structure and properties of practical piezoelectric materials such as quartz, lead zirconate titanate, barium titanate, zinc oxide, and polyvinylidene fluoride Covers the entire gamut of piezoelectric devices used in engineering and medical applications Discusses briefly the use of piezoelectric materials for energy harvesting and structural health monitoring Explores new developments in biomedical applications of piezoelectric devices such as drug delivery, blood flow and blood pressure monitoring, robotic operating tools, etc. Elaborates on design and virtual prototyping of piezoelectric devices through the use of FE software tools ANSYS and PAFEC Giving design engineers, scientists, and technologists the information and guidance they will need to adopt piezoelectric materials in the development of smart devices, this book will also motivate engineering and science students to initiate new research for developing innovative devices. Its contents will be invaluable to both students and professionals seeking a greater understanding of fundamentals and applications in the evolving field of piezoelectrics.

This book comprises selected papers from the Fourth International Conference on Materials and Manufacturing Engineering (ICMME 2019). The contents focus on the latest developments in the synthesis and characterization of new materials, and highlights the challenges involved in the manufacturing and machinability of different materials. Advanced and cost-effective manufacturing processes and their applications are also discussed in the book. In addition, it covers topics like robotics, fluid dynamics, design and development, and different optimization techniques. The contents of this book will be beneficial to students, researchers, and industry professionals.

Hybrid Polymer Composite Materials: Applications provides a clear understanding of the present state-of-the-art and the growing utility of hybrid polymer composite materials. It includes contributions from world renowned experts and discusses the combination of different kinds of materials procured from diverse resources. In addition, this volume from the four volume series provides deep insights on the potential of hybrid polymer composite materials for advanced applications. Provides a clear understanding of the present state-of-the-art and the growing utility of hybrid polymer composite materials Includes contributions from world renowned experts and discusses the combination of different kinds of materials procured from diverse resources Discusses their synthesis, chemistry, processing, fundamental properties, and applications Provides insights on the potential of hybrid polymer composite materials for advanced applications

Nano-Bioremediation: Fundamentals and Applications explores how nano-bioremediation is used to remedy environmental pollutants. The book's chapters focus on the design, fabrication and application of advanced nanomaterials and their integration with biotechnological processes for the monitoring and treatment of pollutants in environmental matrices. It is an important reference source for materials scientists, engineers and environmental scientists who are looking to increase their understanding of bioremediation at the nanoscale. The mitigation of environmental pollution is the biggest challenge to researchers and the scientific community, hence this book provides answers to some important questions. As an advanced hybrid technology, nano-bioremediation refers to the integration of nanomaterials and bioremediation for the remediation of pollutants. The rapid pace of urbanization, massive development of industrial sectors, and modern agricultural practices all cause a controlled or uncontrolled release of environmentally-related hazardous contaminants that are seriously threatening every key sphere, including the atmosphere, hydrosphere, biosphere, lithosphere, and anthroposphere. Explores the current and potential applications of nano-bioremediation in the remediation of hazardous pollutants Outlines the major properties and classes of nanomaterials that make them efficient bioremediation agents Assesses the major challenges of effectively implementing bioremediation techniques at the nanoscale

The authoritative introduction to all aspects of plastics engineering — offering both academic and industry perspectives in one complete volume. Introduction to Plastics Engineering provides a self-contained introduction to plastics engineering. A unique synergistic approach explores all aspects of material use — concepts, mechanics, materials, part design, part fabrication, and assembly — required for converting plastic materials, mainly in the form of small pellets, into useful products. Thermoplastics, thermosets, elastomers, and advanced composites, the four disparate application areas of polymers normally treated as separate subjects, are covered together. Divided into five parts — Concepts, Mechanics, Materials, Part Processing and Assembly, and Material Systems — this inclusive volume enables readers to gain a well-rounded, foundational knowledge of plastics engineering. Chapters cover topics including the structure of polymers, how concepts from polymer physics explain the macro behavior of plastics, evolving concepts for plastics use, simple mechanics principles and their role in plastics engineering, models for the behavior of solids and fluids, and the mechanisms underlying the stiffening of plastics by embedded fibers. Drawing from his over fifty years in both academia and industry, Author Vijay Stokes uses the synergy between fundamentals and applications to provide a more meaningful introduction to plastics. Examines every facet of plastics engineering from materials and fabrication methods to advanced composites Provides accurate, up-to-date information for students and engineers both new to plastics and highly experienced with them Offers a practical guide to large number of materials and their applications Addresses current issues for mechanical design, part performance, and part fabrication Introduction to Plastics Engineering is an ideal text for practicing engineers, researchers, and students in mechanical and plastics engineering and related industries.

Keeping in mind the advantages of bio-based materials, this book focuses on the potential efficacy of different biocomposites procured from diverse natural resources and the preparation and processing of the biocomposites to be used for a variety of applications. Each chapter gives an overview on a particular biocomposite material and its processing and successful utilization for selected applications. The chapters summarize recently developed research on such topics as: Spider silk biocomposites Biogenic hydroxyapatite-based implant biocomposites Liquid crystals and cellulose derivatives biocomposites Bio-based epoxy resins Bio-based polyphenols and lignocellulosic fibers Wood-based biocomposites Flame retardant biocomposites Biocomposites for industrial noise control Cellulose-based bionanocomposites Each individual chapter also focuses on the knowledge and understanding of the interfaces manifested in these biocomposites systems and the optimization of different parameters for novel properties. In addition to this, the book also summarizes the recent developments made in the area of injection molding of biocomposites, chemical functionalization of natural fibers, processing of biocomposites, and their applications in the automotive and biomedical industries. A number of critical issues and suggestions for future work are discussed, underscoring the roles of researchers for the efficient development of biocomposite materials through value addition to enhance their use.

February 20-21, 2017 Berlin, Germany Key Topics : Materials Science and Engineering, Nanotechnology, Biomaterials and Healthcare, Materials in Industry, Materials Chemistry, Materials Physics, Energy Materials, Metallurgy and Materials Science, Advanced Materials and Devices, Characterization and Testing of Materials, Entrepreneurs Investment Meet,

This book addresses the multidisciplinary challenges in biodiversity conservation with a focus on wildlife crime and how forensic tools can be applied to protect species and preserve ecosystems. Illustrated by numerous case studies covering different geographical regions and species the book introduces to the fundamentals of biodiversity conflicts, outlines the unique challenges of wildlife crime scenes and reviews latest techniques in environmental forensics, such as DNA metagenomics. In addition, the volume explores the socio-economic perspective of biodiversity protection and provides an overview of national and international conservation laws. The field of conservation medicine stresses the importance of recognizing that human health, animal health, and ecosystem health are inextricably interdependent. The book addresses graduate students, scientists and veterinary professionals working in wildlife research and conservation biology.

The book provides a comprehensive overview of the authors' works which include significant discoveries and pioneering contributions on Materials Process Engineering, Materials Physics and Chemistry, Emerging Areas of Materials Science, and so on. AMSE2016 is an influential international conference for its strong organization team, dependable reputation and a wide range of sponsors from all over the world. Contents:Nano Science and TechnologyAdvances in Polymer Science and TechnologyMaterial Based Engineering Design and ControlMaterial CharacterizationMaterials Modeling and SimulationMaterials Engineering and PerformanceMaterials Science and Engineering Readership: Scientists from materials process engineering, material physics and chemistry.

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