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Carbon Nanomaterials: Modeling, Design, and Applications provides an in-depth review and analysis of the most popular carbon nanomaterials, including fullerenes, carbon nanotubes, graphene and novel carbon nanomaterial-based membranes and thin films, with emphasis on their modeling, design and applications. This book provides basic knowledge of the structures, properties and applications of carbon-based nanomaterials. It illustrates the fundamental structure-property relationships of the materials in both experimental and modeling aspects, offers technical guidance in computational simulation of nanomaterials, and delivers an extensive view on current achievements in research and practice, while presenting new possibilities in the design and usage of carbon nanomaterials. This book is aimed at both undergraduate and graduate students, researchers, designers, professors, and professionals within the fields of materials science and engineering, mechanical engineering, applied physics, and chemical engineering.

Renewable Materials and Green Technology Products: Environmental and Safety Aspects looks at the design, manufacture, and use of efficient, effective, safe, and more environmentally benign chemical products and processes. It includes a broad range of application-based solutions to the development of renewable materials and green technology. The latest trends in the green synthesis and properties of CNs are presented in the first chapter of this book for generating social awareness about sustainable developments. The book goes on to highlight the naissance and progressive trail of microwave-assisted synthesis of metal oxide nanoparticles, for a clean and green technology tool. Chapters discuss green technological alternatives for the global abatement of air pollution, effective use and treatment of water and wastewater, renewable power generation from solar PV cells, carbon-based nanomaterials synthesized using green protocol for sustainable development, green technologies that help to achieve economic development without harming the environment, technical solutions to cut down the quantum of N losses, conventional processing techniques in developing the bionanocomposites as the biocatalyst, and more.

Polymer Nanocomposite Membranes for Pervaporation assesses recent applications in the pervaporation performance of polymer nanocomposites of different length scales. The book discusses the effects of a range of nanofillers, their dispersion, the effect of different polymers, and organic and inorganic nanomaterials in the pervaporation process. In addition, the book explores how the different properties of a variety of nanocomposite materials make them better for use in different types of liquids, while also discussing the challenges of using different nanocomposites for this purpose effectively and safely. In particular, polymer nanocomposites for g nanoscale dispersion, filler/polymer interactions, and morphology are addressed. This is an important reference source for materials scientists, chemical engineers and environmental engineers who want to learn more about how polymer nanocomposites are being used to make the pervaporation separation process more effective.

Design, Fabrication, and Characterization of Multifunctional Nanomaterials covers major techniques for the design, synthesis, and development of multifunctional nanomaterials. The chapters highlight the main characterization techniques, including X-ray diffraction, scanning electron microscopy, high-resolution transmission electron microscopy, energy dispersive X-ray spectroscopy, and scanning probe microscopy. The book explores major synthesis methods and functional studies, including: Brillouin spectroscopy; Temperature-dependent Raman spectroscopic studies; Magnetic, ferroelectric, and magneto-electric coupling analysis; Organ-on-a-chip methods for testing nanomaterials; Magnetron sputtering techniques; Pulsed laser deposition techniques; Positron annihilation spectroscopy to prove defects in nanomaterials; Electroanalytic techniques. This is an important reference source for materials science students, scientists, and engineers who are looking to increase their understanding of design and fabrication techniques for a range of multifunctional nanomaterials. Explains the major design and fabrication techniques and processes for a range of multifunctional nanomaterials; Demonstrates the design and development of magnetic, ferroelectric, multiferroic, and carbon nanomaterials for electronic applications, energy generation, and storage; Green synthesis techniques and the development of nanofibers and thin films are also emphasized.

The CRC Concise Encyclopedia of Nanotechnology sets the standard against which all other references of this nature are measured. As such, it is a major resource for both skilled professionals and novices to nanotechnology.The book examines the design, application, and utilization of devices, techniques, and technologies critical to research at the

Fundamentals and Properties of Multifunctional Nanomaterials outlines the properties of highly intricate nanosystems, including liquid crystalline nanomaterials, magnetic nanosystems, ferroelectrics, nanomultiferroics, plasmonic nanosystems, carbon-based nanomaterials, 1D and 2D nanomaterials, and bio-nanomaterials. This book reveals the electromagnetic interference shielding properties of nanocomposites. The fundamental attributes of the nanosystems leading to the multifunctional applications in diverse areas are further explored throughout this book. This book is a valuable reference source for researchers in materials science and engineering, as well as in related disciplines, such as chemistry and physics. Explains the concepts and fundamental applications of a variety of multifunctional nanomaterials; Introduces fundamental principles in the fields of magnetism and multiferroics; Addresses ferromagnetics, multiferroics, and carbon nanomaterials.