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**Contamination of Water: Health Risk Assessment and Treatment Strategies** takes an interconnected look at various pollutants, sources of contamination, the effects of contamination on aquatic ecosystems and human health, and potential

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**mitigation strategies. The book begins by examining the sources of potential contamination, including the current scenario of dyes, heavy metals, pesticides and oils contamination as well as regions impacted due to industrialization,**

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**mining or urbanization. It then analyzes various methods of water contamination, assesses health risk and adverse effects on those impacted, and concludes with an exploration of efficient, low-cost treatment technologies that remove**

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**toxic pollutants from the water. This book incorporates both theoretical and practical information that will be useful for researchers, professors, graduate students and professionals working on water contamination, environmental and health impacts,**

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**and the management and treatment of water resources. Provides practical case studies of various types of contamination and sources in different regions Offers an overview of inorganic and organic contaminants and their impact on**

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**human health Evaluates several low-cost, efficient and effective water treatment technologies to remove toxins from water and minimize risk A recent initiative within the civil engineering field is the use of nanotechnology and materials within**

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**the construction industry. While there has been great success in the adoption of various nanomaterials, there is still room for development and improvement. Advanced Research on Nanotechnology for Civil Engineering Applications**



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**highlights emergent research and theoretical concepts in the implementation of nanotechnology within the construction, geotechnical, and transportation engineering fields. Examining the application of nanomaterials, current trends within**

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**perspectives on the interdisciplinary use of fuzzy logic theory, focusing on the application of sets and matrices. Highlighting theoretical framework and empirical research findings, this book is ideally designed for academics, practitioners, upper-level**

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**students, and professionals  
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of fuzzy logic sets and matrices.  
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**Multiscale simulations of atomistic/continuum coupling in computational materials science, where the scale expands from macro-/micro- to nanoscale, has become a hot research topic. These small units, usually nanostructures,**

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**are commonly anisotropic. The development of molecular modeling tools to describe and predict the mechanical properties of structures reveals an undeniable practical importance. Typical anisotropic structures (e.g. cubic, hexagonal,**

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**monoclinic) using DFT, MD, and atomic finite element methods are especially interesting, according to the modeling requirement of upscaling structures. It therefore connects nanoscale modeling and continuous patterns of deformation**

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**behavior by identifying relevant parameters from smaller to larger scales. These methodologies have the prospect of significant applications. I would like to recommend this book to both beginners and experienced researchers.**

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Wastewater treatment  
technology is undergoing a  
profound transformation  
due to the fundamental  
changes in regulations  
governing the discharge  
and disposal of h- arduous

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pollutants. Established design procedures and criteria, which have served the industry well for decades, can no longer meet the ever-increasing demand. Toxicity reduction

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requirements dictate in the development of new technologies for the treatment of these toxic pollutants in a safe and cost-effective manner. Fo-  
most among these

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technologies are electrochemical processes. While electrochemical technologies have been known and utilized for the treatment of wastewater containing heavy metal

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cations, the application of these processes is only just a beginning to be developed for the oxidation of recalcitrant organic pollutants. In fact, only recently the

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electrochemical oxidation process has been recognized as an advanced oxidation process (AOP). This is due to the development of boron-doped diamond (BDD) anodes on



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which the oxidation of  
organic pollutants is  
mediated via the formation  
of active hydroxyl  
radicals.

This book disseminates the  
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semiconductor physics and its applications across the scientific community. It is based on a biennial workshop that provides the participating research groups with a stimulating

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& devices, compound  
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and other 2D materials and  
organic semiconductors.  
Colloids are submicron  
particles that are  
ubiquitous in both natural  
and industrial products.  
Colloids and colloidal

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systems play a significant role in human health as well as commercial and industrial situations. Colloids have important applications in medicine, sewage disposal, water

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book gathers recent  
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discusses several aspects of colloid morphology, synthesis, and applications. The book is divided into three sections that cover different techniques for



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the synthesis of colloids,  
the structure, dynamic and  
stability of colloids, and  
applications of colloidal  
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significance, and applicability of nanostructure materials. The chapters in this book provide the logical and comprehensive information pertaining to the recent

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experts in the field, this book presents the latest advances and developments in nanostructure materials. We hope this book will help in describing the current

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position of nanostructure materials in the technological sphere as well as encourage scientists and engineers in deeper exploration of nanostructure materials to

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chemical products and  
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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



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book for generating social awareness about sustainable developments. The book goes on to highlight the naissance and progressive trail of microwave-assisted

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synthesis of metal oxide nanoparticles, for a clean and green technology tool. Chapters discuss green technological alternatives for the global abatement of air pollution,

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processing techniques in  
developing the  
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polymeric substrates to  
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and usage of optical materials and devices in various photonic fields. The authors discuss devices and technologies used by the electronics, magnetics, and photonics

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industries and offer perspectives on the manufacturing technologies used in device fabrication.

Applications of  
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Nanomaterials showcases the major applications of highly correlated nanosystems that highlight the multifunctionality of nanomaterials. This includes applications of

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with piezoelectric  
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shielding applications and even applications in sunscreen lotions, cosmetics and food packaging will be discussed. In addition, nanoparticle incorporation

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in animal nutrition  
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productivity is an  
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Design, Fabrication, and Characterization of Multifunctional Nanomaterials covers the major techniques for the design, synthesis and development of multifunctional nanomaterials. The book highlights the main characterization

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techniques, including, X-ray Diffraction, Scanning Electron Microscopy, High Resolution Transmission Electron Microscopy, Energy Dispersive X-ray Spectroscopy and Scanning Probe Microscopy Techniques. In addition, it explores functional studies, including Z-scan technique for non-linear optics,

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Device (SQUID) Interferometry for temperature dependent magnetic measurements, low temperature Raman spectroscopy to probe functional group analysis, Mossbauer Spectroscopy to investigate superparamagnetic doublets, Positron Annihilation Spectroscopy to probe defects in materials and Neutron

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Fundamentals and Properties of Multifunctional Nanomaterials outlines the properties of highly intricate nanosystems, including liquid

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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

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carbon nanomaterials.

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proceedings.

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synchronous topologies and their applications, with a particular focus on sustainable applications. This is followed by an analysis of the electromagnetic modeling of linear synchronous machines, the goal being to investigate their main features, especially their force production

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capabilities.

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Fuzzy logic techniques have had  
extraordinary growth in various  
engineering systems. The  
developments in engineering sciences  
have caused apprehension in modern



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years due to high-tech industrial processes with ever-increasing levels of complexity. Advanced Fuzzy Logic Approaches in Engineering Science provides innovative insights into a comprehensive range of soft fuzzy logic techniques applied in various fields of engineering problems like

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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

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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,

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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,

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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

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