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Vacuum and Ultravacuum Spin Physics in Semiconductors Business Research using Basic Research Tools Char-based Composites Finite Element Analysis of Polymers and Composites Development of an Ultrafast Low-Energy Electron Diffraction Setup Disasters Advances in Mesenchymal Stem Cells and Tissue Engineering Recent Advances in Material, Manufacturing, and Machine Learning *Igor Bello Mikhail I. Dyakonov Dr. K.V.R. Rajandran W. A. K. G. Wan Azlina Sathish Kumar Palaniappan Max Gulde Kathleen Tierney Phuc Van Pham Rajiv Gupta*

vacuum technology has enormous impact on human life in many aspects and fields such as metallurgy material development and production food and electronic industry microelectronics device fabrication physics materials science space science engineering chemistry technology of low temperature pharmaceutical industry and biology all decorative coatings used in jewelries and various daily products including shiny decorative papers the surface finish of watches and light fixtures are made using vacuum technological processes vacuum analytical techniques and vacuum technologies are pillars of the technological processes material synthesis deposition and material analyses all of which are used in the development of novel materials increasing the value of industrial products controlling the technological processes and ensuring the high product quality based on physical models and calculated examples the book provides a deeper look inside the vacuum physics and technology

this book offers an extensive introduction to the extremely rich and intriguing field of spin

related phenomena in semiconductors in this second edition all chapters have been updated to include the latest experimental and theoretical research furthermore it covers the entire field bulk semiconductors two dimensional semiconductor structures quantum dots optical and electric effects spin related effects electron nuclei spin interactions spin hall effect spin torques etc thanks to its self contained style the book is ideally suited for graduate students and researchers new to the field

char based composites production characterization limitations and emerging applications provides the reader with a wide spectrum of information on char and biochar based composites emphasis is placed on their production characterization applications and limitations towards commercialization the book s chapters concentrate on char biochar as nanofillers in composite materials which are currently used in various advanced technologies including nanotechnology environmental sectors gas cleaning and wastewater treatments energy storage and solid fuel and catalysts this book will be a valuable reference resource for academic and industrial researchers as well as biotechnologists working in the development of advanced char and biochar based composite materials covers materials selection design solutions manufacturing techniques structural analysis and performance of char and biochar based composites discusses various applications including wastewater treatment gas cleaning energy storage solid fuel catalysts and other advanced technologies includes new materials reinforced by char in structural and automotive applications covers toxicity and the circular economy regarding biochar production and utilization

finite element analysis of polymers and its composites offers up to date and significant findings on the finite element analysis of polymers and its composite materials it is important to point out that to date there are no books that have been published in this concept thus academicians researchers scientists engineers and students in the similar field will benefit from this highly application oriented book this book summarizes the experimental mathematical and numerical analysis of polymers and its composite materials through finite element method it provides detailed and comprehensive information on mechanical properties fatigue and creep behaviour thermal behaviour vibrational analysis testing methods and their modeling techniques in addition this book lists the main industrial sectors in which polymers and its composite materials simulation is used and their gains from it including aeronautics medical aerospace automotive naval energy civil sports manufacturing and even electronics expands knowledge about the finite element analysis of polymers and

composite materials to broaden application range presents an extensive survey of recent developments in research offers advancements of finite element analysis of polymers and composite materials written by leading experts in the field provides cutting edge up to date research on the characterization analysis and modeling of polymeric composite materials

this book presents an ultrafast low energy electron diffraction uled system that reveals ultrafast structural changes on the atomic scale the achievable temporal resolution in the low energy regime is improved by several orders of magnitude and has enabled the melting of a highly sensitive molecularly thin layer of a polymer crystal to be resolved for the first time this new experimental approach permits time resolved structural investigations of systems that were previously partially or totally inaccessible including surfaces interfaces and atomically thin films it will be of fundamental importance for understanding the properties of nanomaterials so as to tailor their properties

disasters kill maim and generate increasingly large economic losses but they do not wreak their damage equally across nations and populations every disaster has social forces at its very core this important book sheds light on the social conditions and the global national and local processes that produce environmental degradation and disaster topics covered include the social roots of disaster vulnerability exposure to natural hazards as a form of environmental injustice and emerging threats written by a leading expert in the field the book provides the necessary frameworks for understanding hazards and disasters as it explores the contributions of various social science disciplines to disaster research and how these ideas have evolved over time bringing the social aspects of disasters to the forefront tierney discusses the challenge of conducting research in the aftermath of a disaster and critiques the concept of disaster resilience which has come to be seen as a key to disaster risk reduction this second edition places greater emphasis on climate related disasters and offers new reflections on the impacts of covid 19 additional material on the legacies of colonialism and refreshed case studies peppered with research findings and insights from a wide range of disciplines this rich introduction is an invaluable resource for students and scholars interested in both the social nature of disasters and their relation to broader social forces

the fourth volume in this series is a proceedings volume based on papers presented at the 5th innovations in regenerative medicine and cancer research conference chapters are written by some of the most innovative minds in stem cell and tissue engineering research and provide a

comprehensive overview of papers from the most recent conference the volume addresses tissue engineering principles and applications including current trends and challenges as well as future directions cutting edge topics of interest include production of functional tissues vascularization and immune responses and functionalization of scaffolds volumes in this series are invaluable resources for active researchers clinicians and professionals in industry as well as students across a broad range of fields

the role of manufacturing in a country's economy and societal development has long been established through their wealth generating capabilities to enhance and widen our knowledge of materials and to increase innovation and responsiveness to ever increasing international needs more in depth studies of functionally graded materials tailor made materials recent advancements in manufacturing processes and new design philosophies are needed at present the objective of this volume is to bring together experts from academic institutions industries and research organizations and professional engineers for sharing of knowledge expertise and experience in the emerging trends related to design advanced materials processing and characterization and advanced manufacturing processes

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