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Design, Fabrication, and Significance of Advanced Nanostructured Materials

Nanostructured materials are revolutionizing various industries with their unique properties. Yet, researchers and practitioners need help accessing comprehensive and up-to-date literature on their synthesis, characterization, and applications. Existing books often focus narrowly on synthesis methods, overlooking critical aspects such as design, spectroscopic characterization techniques, and diverse applications in electronics, optoelectronics, biomedical devices, and more. This gap in the literature leaves academics, researchers, and industrial scientists needing a comprehensive resource to address their pressing questions and needs in the field.

Design, Fabrication, and Significance of Advanced Nanostructured Materials bridges this gap by offering a holistic approach to understanding these materials. It provides in-depth coverage of the latest synthetic approaches, spectroscopic characterization techniques, and advanced applications in various fields. With ten chapters covering a wide range of topics, from the basics of nanostructured materials to advanced fabrication techniques, this book serves as a one-stop resource for anyone looking to delve into this exciting field. This book aims to empower researchers and industrialists with the knowledge to innovate and advance in their fields by providing clear explanations and solutions to critical questions surrounding nanostructured materials.

This book is not just for researchers and academics; it is a valuable resource that can directly impact your work. It is designed to be accessible to a wide audience with diverse backgrounds and interests, making it a useful tool for industrial R&D centers, governmental research centers, and academic libraries. Whether you are a seasoned researcher looking to stay updated with the latest advancements or a newcomer seeking a comprehensive introduction to nanostructured materials, this book offers valuable insights and practical knowledge that can enhance your understanding and application of these materials.

Topics Covered

- Biogenic Synthesis
- Biomaterials
- Chemical Vapor Deposition
- Drug Delivery
- Energy Storage
- Fast Fabrication
- Gene Delivery
- Microwave Synthesis
- Nano-Composite Materials
- Nanostructured Materials
- Physical Vapor Deposition
- Spectroscopic Techniques
- Synthesis



701 E. Chocolate Avenue
Hershey, PA 17033, USA
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Design, Fabrication, and Significance of Advanced Nanostructured Materials

Laxman Singh



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