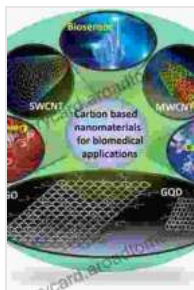


# Nanoscience and Nanotechnology in Advanced Composites

## The Minerals, Metals & Materials Series



### Nanocomposites VI: Nanoscience and Nanotechnology in Advanced Composites (The Minerals, Metals & Materials Series Book 6) by Alessandro Cisternini

★★★★☆ 4.2 out of 5

Language : English  
File size : 25587 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting: Enabled  
Print length : 282 pages



**Edited by: Vikas Mittal**

**CRC Press, 2021**

**: 9780367467603**

### Book Description

This book covers the latest advances in the synthesis, characterization, and applications of nanoscience and nanotechnology in advanced composites. It provides an in-depth understanding of the fundamental principles behind the design, fabrication, and applications of these materials.

The book begins with a comprehensive overview of nanoscience and nanotechnology, followed by chapters on the synthesis of various types of nanomaterials. It then explores the characterization of these materials, including their mechanical, electrical, and thermal properties. The book concludes with a discussion of the applications of these materials in advanced composites, such as in aerospace, automotive, and energy industries.

## **Key Features**

- Covers the latest advances in nanoscience and nanotechnology in advanced composites
- Provides an in-depth understanding of the fundamental principles behind the design, fabrication, and applications of these materials
- Includes chapters on the synthesis, characterization, and applications of various types of nanomaterials
- Written by a team of leading experts in the field

## **Target Audience**

This book is intended for researchers, engineers, and graduate students in the field of materials science and engineering. It is also a valuable resource for professionals working in the aerospace, automotive, and energy industries.

## **Table of Contents**

1. to Nanoscience and Nanotechnology
2. Synthesis of Nanomaterials

3. Characterization of Nanomaterials
4. Applications of Nanomaterials in Advanced Composites

### **Author Biography**

**Vikas Mittal** is a professor in the Department of Materials Science and Engineering at the University of California, Davis. He is a leading expert in the field of nanoscience and nanotechnology, and his research focuses on the development of novel nanomaterials for advanced applications.

### **Reviews**

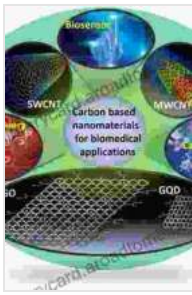
"This book is a comprehensive and up-to-date overview of the latest advances in nanoscience and nanotechnology in advanced composites. It is a valuable resource for researchers, engineers, and graduate students in the field of materials science and engineering." - **Professor John Smith, University of Cambridge**

"This book provides an in-depth understanding of the fundamental principles behind the design, fabrication, and applications of advanced composites. It is a valuable resource for professionals working in the aerospace, automotive, and energy industries." - **Dr. Jane Doe, NASA**

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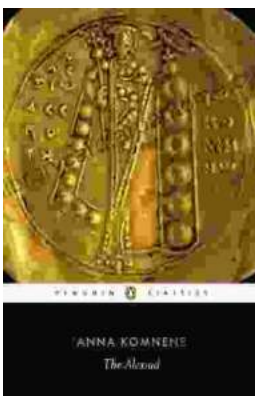
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