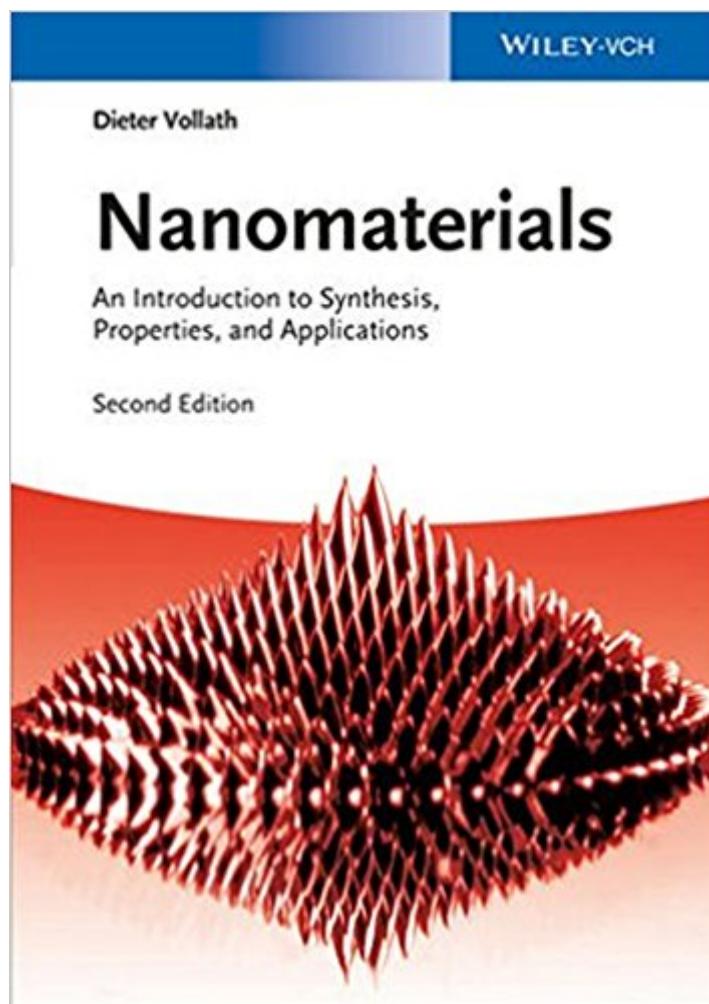


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Nanomaterials: An Introduction To Synthesis, Properties And Applications



Synopsis

Successor of the highly acclaimed, first full-color introduction to nanomaterials - now including graphenes and carbon nanotubes. This full-colored introduction to nanomaterials and nanotechnology in particular addresses the needs of engineers who need to know the special phenomena and potentials, without getting bogged down in the scientific detail of the physics and chemistry involved. Based on the author's own courses, this textbook shows how to produce nanomaterials and use them in engineering applications for novel products. Following an introduction, the text goes on to treat synthesis, characterization techniques, thermal, optical, magnetic and electronic properties, processing and, finally, emerging applications. A sound overview of the "nano world" from an application-oriented perspective. Reviews for the first edition: "The reader [of this book] profits from the broad scientific teaching experience of the author.... This book is highly recommended for everyone who wants to step onto the new and fascinating field of nanomaterials." (International Journal of Materials Research, May 2009) "The practical presentation and clarity in writing style makes this book a winner for anyone wanting to quickly learn about the fundamentals and practical side of nanomaterials." (IEEE Electrical Insulation Magazine, March/April 2009)

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applications for novel products. Following an introduction, the text goes on to treat synthesis, characterization techniques, thermal, optical, magnetic and electronic properties, processing and, finally, emerging applications. As a second edition the content has been thoroughly revised and updated. Additional topics are now included: graphenes, carbon nanotubes, novel nanocomposite materials, plasmonic phenomena, and nanoelectronics. A sound overview of the 'nano world' from an application-oriented perspective.

Professor Dieter Vollath has more than 20 years experience in the research of synthesis and properties of nanomaterials. He was Department Head at the Forschungszentrum Karlsruhe, Germany, and gives lectures at the Technical University Graz, Austria. Since 2003 he is acting as nanotechnology consultant with his own company NanoConsulting. His courses on nanomaterials formed the basis for this textbook.

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