



Nanotechnology

By Michael Kohler, Wolfgang Fritzsche

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Expectations of a technological revolution are associated with nanotechnology, and indeed the generation, modification and utilization of objects with tiniest dimensions already permeates science and research in a way that the absence of nanotechnology is no longer conceivable. It has progressed to an independent interdisciplinary field, its great success due to the purposeful combination of physical, mechanical and molecular techniques.

This book starts out with the most important fundamentals of microtechnology and chemistry on which the understanding of shaping nanoscale structures are based. Next, a variety of examples illustrate the fabrication of nanostructures from different materials, before, finally, methods for characterization of the generated structures are presented.

This fascinating introduction provides both scientists and engineers with insights into the "other side" of nanotechnology.

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Editorial Review

Review

"The book is clearly written for people with a technical background who either wish to start research and development in nanotechnology or just want to learn more about nanotechnology and what it stands for. Once your mind becomes receptive to the idea of nanotechnology, this book is relatively easy to read, and I would recommend it as a good introductory text."

Materials World

"Through this fascinating introduction, both scientists and engineers gain insights into the "other side" of nanotechnology in this highly recommended publication."

Advances in Food Sciences

"...comprehensive coverage of all underlying principles...quite instructive diagrams..."

Chemistry & Industry

"Through this fascinating introduction, both scientists and engineers gain insights into the "other side" of nanotechnology in this highly recommended publication."

AFS - Advances in Food Sciences

"Of interest to scientists and engineers in many research areas of nanotechnology, this book offers a valuable referee source and some state-of-the-art reviews."

Lifeng Chi, Physics Department, Universität Münster, small

"In summary, the book offers a general survey of nanolithography and scanning probe techniques."

Colloid & Polymer Science

"Very recent progress are well addressed, together with a list of original publications for each method.

Benefiting from their own research fields, the authors have a broad view of nanostructures. This book offers a valuable referee source and some state-of-the-art reviews."

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Review

"Of interest to scientists and engineers in many research areas of nanotechnology, this book offers a valuable referee source and some state-of-the-art reviews."

—Lifeng Chi, Physics Department, Universität, Münster

From the Back Cover

Starting on fundamentals of microtechnology and chemistry explaining the basic of nanostructure characterization and proceeding with many illustrated examples of nanostructure fabrication, this on-hand book combines physical, mechanical as well as molecular aspects of this ultra-modern and therefore extraordinary dynamic field of science.

Aiming on experienced scientists and engineers as well as on students and newcomers in the field, this new edition presents a latest collection of news in nanotechnology.

About the First Edition:

"Comprehensive coverage of all underlying principles"

Chemistry & Industry

"Through this fascinating introduction, both scientists and engineers gain insights into the 'other side' of nanotechnology - highly recommended."

Advances in Food Sciences

"This book offers a valuable referee source and state-of-the-art reviews."

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Materials World

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