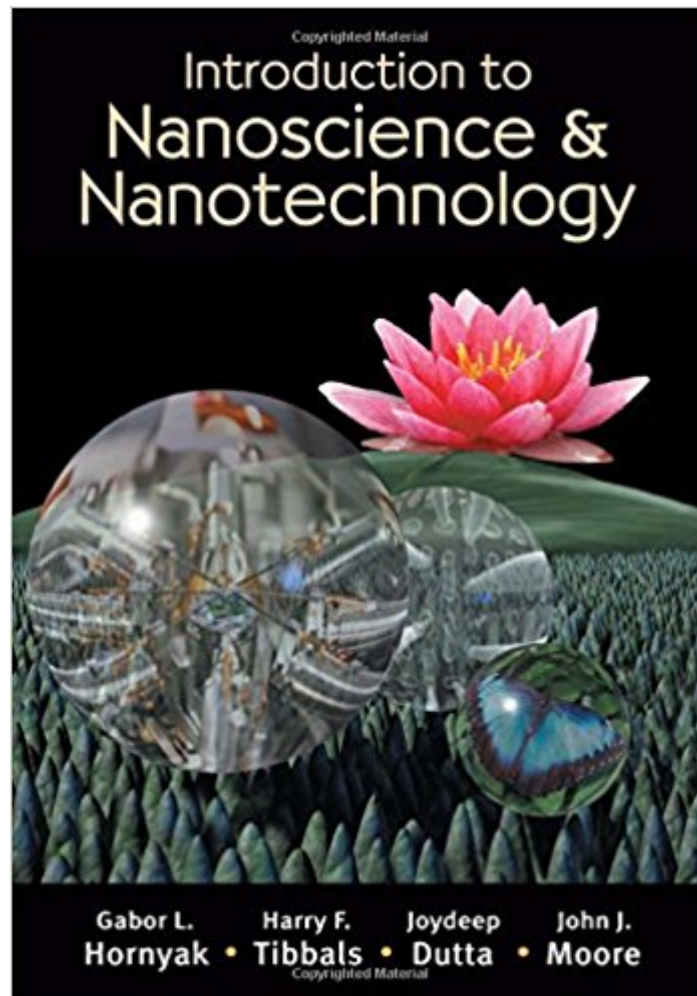




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Introduction To Nanoscience And Nanotechnology



Synopsis

The maturation of nanotechnology has revealed it to be a unique and distinct discipline rather than a specialization within a larger field. Its textbook cannot afford to be a chemistry, physics, or engineering text focused on nano. It must be an integrated, multidisciplinary, and specifically nano textbook. The archetype of the modern nano textbook, *Introduction to Nanoscience and Nanotechnology* builds a solid background in characterization and fabrication methods while integrating the physics, chemistry, and biology facets. The remainder of this color text focuses on applications, examining engineering aspects as well as nanomaterials and industry-specific applications in such areas as energy, electronics, and biotechnology. Also available in two course-specific volumes: *Introduction to Nanoscience* elucidates the nanoscale along with the societal impacts of nanoscience, then presents an overview of characterization and fabrication methods. The authors systematically discuss the chemistry, physics, and biology aspects of nanoscience, providing a complete picture of the challenges, opportunities, and inspirations posed by each facet before giving a brief glimpse at nanoscience in action: nanotechnology. *Fundamentals of Nanotechnology* surveys the field's broad landscape, exploring the physical basics such as nanorheology, nanofluidics, and nanomechanics as well as industrial concerns such as manufacturing, reliability, and safety. The authors then explore the vast range of nanomaterials and systematically outline devices and applications in various industrial sectors. Qualifying instructors who purchase either of these volumes (or the combined set) are given online access to a wealth of instructional materials. These include detailed lecture notes, review summaries, slides, exercises, and more. The authors provide enough material for both one- and two-semester courses.

Book Information

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Customer Reviews

NanoThread, Inc., Golden, Colorado, USA University of Texas Southwestern Medical Center, Dallas, USA Asian Institute of Technology, Pathumthani, Thailand

The only reason I didn't give this 1 star was because of the shipping time which was amazing. The book's spine is falling off, there are stickers all over it it's in really rough shape

Great introduction book, easy to read. Well written with gradients in mind, so the learner moves smoothly through the book. Many photos and illustrations to convey ideas.

I rented this book and would recommend the same to anyone else. This is mainly because much of this material will be irrelevant in the next decade. The material could be presented in a more interesting manner but isn't.

This book is great for a non chemistry or physics major that wants to get a decent understanding of the "nano world". There is a lot of information, but there is a fair amount of overlap from chapter to chapter due to the multiple authors. I found several typos and did not agree with some of their descriptions or analogies of various scanning probe microscopes.

A well-done introduction book to nanoworld, but too heavy and non very practice to manipulate.

This book is really an "introduction" of nanoworld. It covers a lot of areas in nanoscience and nanotechnology but none of them are in detail. It makes me feel confused since it talks every aspect a little. At most of the time I just skim over the content.

This book is well-written and covers the field of nanoscience well, but the material the publisher used for the pages gives off a very noxious odor. With the book open in front of you on the table, you will probably develop a headache within about ten minutes.

The book is exactly what I need. Although it is 2nd hand book, it looks good. Hope I can keep it

appearance.

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