



Introduction to Nanomaterials and Devices

Omar Manasreh

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An invaluable introduction to nanomaterials and their applications

Offering the unique approach of applying traditional physics concepts to explain new phenomena, Introduction to Nanomaterials and Devices provides readers with a solid foundation on the subject of quantum mechanics and introduces the basic concepts of nanomaterials and the devices fabricated from them. Discussion begins with the basis for understanding the basic properties of semiconductors and gradually evolves to cover quantum structures--including single, multiple, and quantum wells--and the properties of nanomaterial systems, such as quantum wires and dots.

Written by a renowned specialist in the field, this book features:

An introduction to the growth of bulk semiconductors, semiconductor thin films, and semiconductor nanomaterials

Information on the application of quantum mechanics to nanomaterial structures and quantum transport

Extensive coverage of Maxwell-Boltzmann, Fermi-Dirac, and Bose-Einstein statistics

An in-depth look at optical, electrical, and transport properties

Coverage of electronic devices and optoelectronic devices

Calculations of the energy levels in periodic potentials, quantum wells, and quantum dots

Introduction to Nanomaterials and Devices provides essential groundwork for understanding the behavior and growth of nanomaterials and is a valuable resource for students and practitioners in a field full of possibilities for innovation and invention.

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