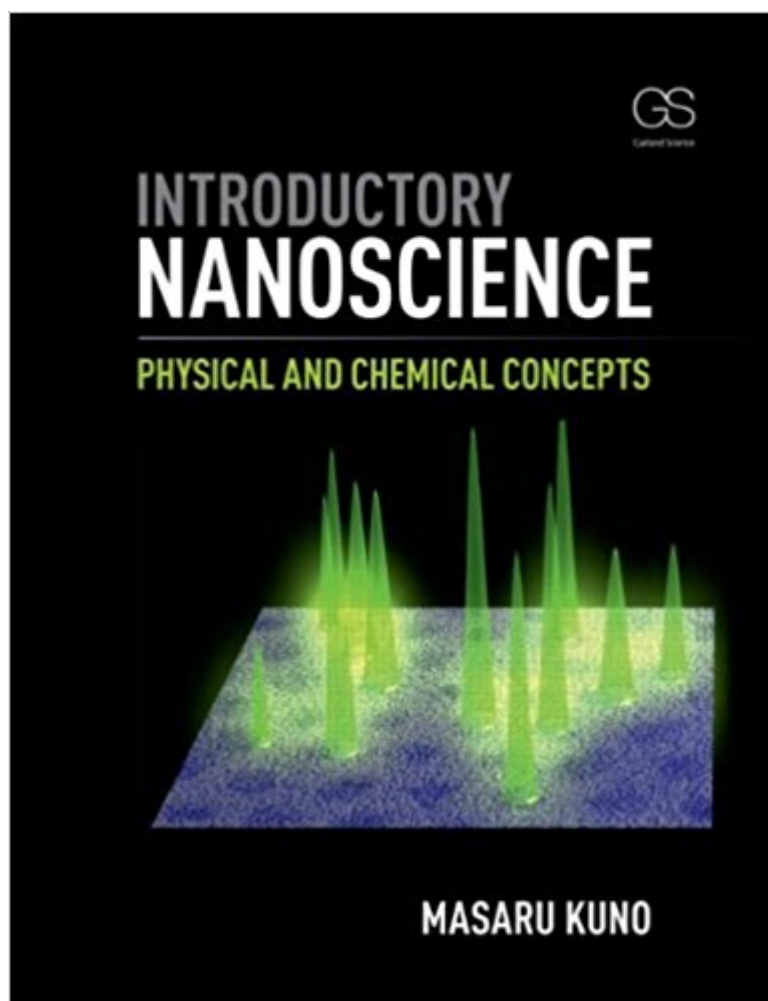


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Introductory Nanoscience: Physical And Chemical Concepts



Synopsis

Designed for upper-level undergraduate and graduate students, Introductory Nanoscience asks key questions about the quantitative concepts that underlie this new field. How are the optical and electrical properties of nanomaterials dependent upon size, shape, and morphology? How do we construct nanometer-sized objects? Using solved examples throughout the chapters, this textbook shows to what extent we may predict the behavior and functionality of nanomaterials by understanding how their properties change with scale. Fundamental concepts are reinforced through end-of-chapter problems and further reading. Students will appreciate complete derivations of relevant equations, simplified assumptions for practical calculations, listed references, and a historical overview about the development of colloidal quantum dots.

Book Information

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Customer Reviews

Masaru Kuno earned his PhD at the Massachusetts Institute of Technology, followed by an NRC postdoctoral fellowship at JILA, University of Colorado at Boulder. He is Associate Professor of Chemistry and Biochemistry at the University of Notre Dame working on the synthesis and optical microscopy of solution-based semiconductor nanowires.

An excellent intro to Nanosciences!!! This book describes very clear the fundamental background that is needed to understand the physical and chemical properties at nano scales. Strongly recommended!!!

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