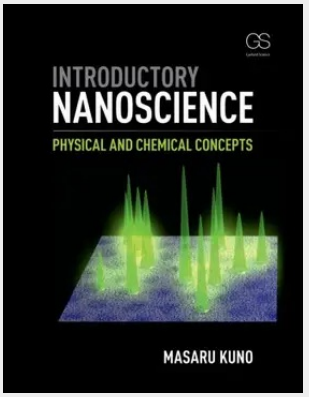
Kuno

Introductory Nanoscience

Physical and Chemical Concepts

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.



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