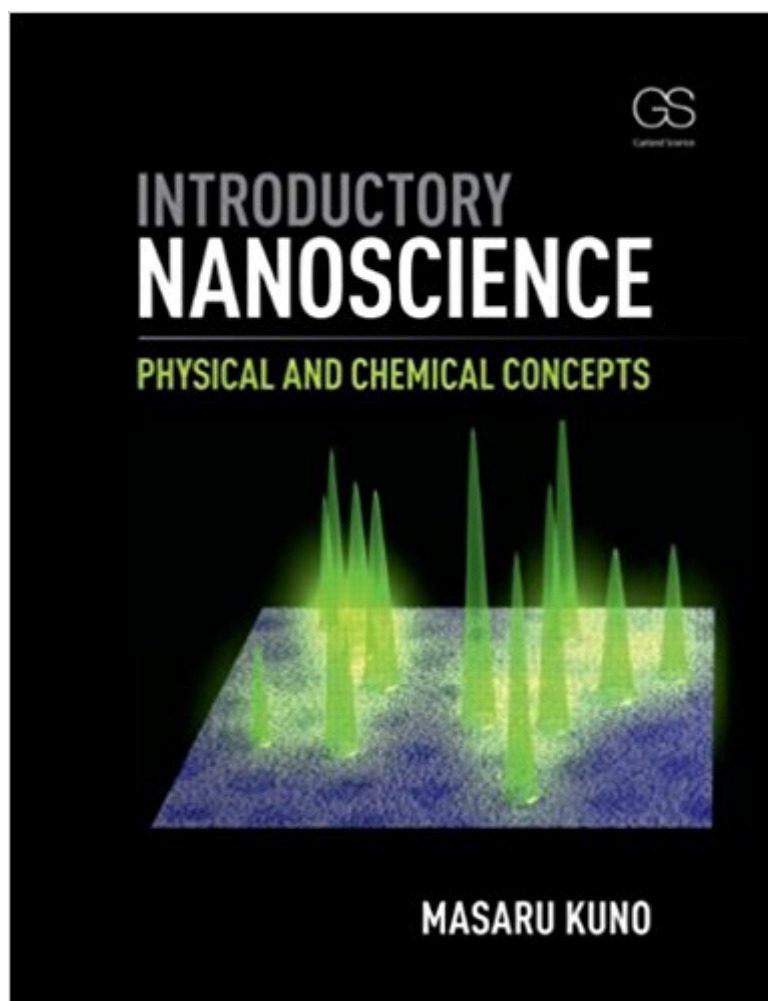


The book was found

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.Â 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

Paperback: 420 pages

Publisher: Garland Science; 1 edition (August 19, 2011)

Language: English

ISBN-10: 0815344244

ISBN-13: 978-0815344247

Product Dimensions: 8.4 x 0.6 x 10.9 inches

Shipping Weight: 2.1 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #507,906 in Books (See Top 100 in Books) #78 inÂ Books > Science & Math > Technology > Nanotechnology #1605 inÂ Books > Textbooks > Science & Mathematics > Physics #1667 inÂ Books > Science & Math > Chemistry > General & Reference

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!!!

[Download to continue reading...](#)

Introductory Nanoscience: Physical and Chemical Concepts Fundamental Concepts and Computations in Chemical Engineering (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Sliding Friction: Physical Principles and Applications (NanoScience and Technology) Nanophysics and Nanotechnology: An Introduction to Modern Concepts in Nanoscience (No Longer Used) Introductory Chemical Engineering Thermodynamics (2nd Edition) (Prentice Hall International Series in the Physical and Chemi) Basic Principles and Calculations in Chemical Engineering (8th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Analysis, Synthesis and Design of Chemical Processes (4th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Fundamentals of Chemical Engineering Thermodynamics (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Elements of Chemical Reaction Engineering (5th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Essentials of Chemical Reaction Engineering (Prentice Hall International Series in Physical and Chemical Engineering) Chemical Process Safety: Fundamentals with Applications (3rd Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Bioprocess Engineering: Basic Concepts (3rd Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Chirelstein's Federal Income Taxation: A Law Student's Guide to the Leading Cases and Concepts (Concepts and Insights) (Concepts and Insights Series) Nanostructures and Nanomaterials: Synthesis, Properties, and Applications (2nd Edition) (World Scientific Series in Nanoscience and Nanotechnology) Polymer Nanocomposites: Processing, Characterization, And Applications (McGraw-Hill Nanoscience and Technology) Molecular Driving Forces: Statistical Thermodynamics in Biology, Chemistry, Physics, and Nanoscience, 2nd Edition An Introduction to Interfaces and Colloids: The Bridge to Nanoscience Introduction to Nanoscience and Nanotechnology Handbook of Nanoscience, Engineering, and Technology (Electrical Engineering Handbook) A Laboratory Course in Nanoscience and Nanotechnology

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)