



Nanophysics and Nanotechnology: An Introduction to Modern Concepts in Nanoscience

By Wolf, Edward L.

Wiley-VCH, 2006. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface.Preface to 1st Edition.1. Introduction.1.1 Nanometers, Micrometers, Millimeters.1.2 Moore's Law.1.3 Esaki's Quantum Tunneling Diode.1.4 Quantum Dots of ManyColors.1.5 GMR 100Gb Hard Drive "Read" Heads.1.6 Accelerometers in your Car.1.7 Nanopore Filters.1.8 Nanoscale Elements in Traditional Technologies.2. Systematics of Making Things Smaller, Pre-quantum.2.1 Mechanical Frequencies Increase in Small Systems.2.2 Scaling Relations Illustrated by a Simple Harmonic Oscillator.2.3 Scaling Relations Illustrated by Simple Circuit Elements.2.4 Thermal Time Constants and Temperature Differences Decrease.2.5 Viscous Forces Become Dominant for Small Particles in Fluid Media.2.6 Frictional Forces can Disappear in Symmetric Molecular Scale Systems.3 What are Limits to Smallness?3.1 Particle (Quantum) Nature of Matter: Photons, Electrons, Atoms, Molecules.3.2 Biological Examples of Nanomotors and Nanodevices.3.2.1 Linear Spring Motors.3.2.2 Linear Engines on Tracks.3.2.3 RotaryMotors.3.2.4 Ion Channels, the Nanotransistors of Biology.3.3 How Small can you Make it?3.3.1 What are the Methods for Making Small Objects?3.3.2 How Can you See What you Want to Make?3.3.3 How Can you Connect it to the Outside World?3.3.4 If you Can't See it or Connect to it, Can you Make it Self-assemble and Work on its Own?3.3.5 Approaches to Assemblyof Small Three-dimensional Objects.3.3.6 Use of DNA Strands in...



READ ONLINE
[2.52 MB]

Reviews

Extremely helpful to any or all category of men and women. It really is rally exciting throug reading time. I am just happy to let you know that this is basically the greatest pdf i have got go through in my personal existence and may be he finest book for at any time.

-- **Carroll Greenfelder IV**

Completely one of the better pdf I have got possibly go through. I really could comprehended every little thing using this composed e ebook. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- **Torey Kreiger**

Other eBooks



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the Youth Pre-employment Training software download generated pictures...



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the Youth Pre-employment Training software download generated pictures...



Becoming Barenaked: Leaving a Six Figure Career, Selling All of Our Crap, Pulling the Kids Out of School, and Buying an RV We Hit the Road in Search Our Own American Dream. Redefining What It Meant to Be a Family in America.

Createspace, United States, 2015. Paperback. Book Condition: New. 258 x 208 mm. Language: English . Brand New Book ***** Print on Demand *****. This isn't porn. Everyone always asks and some of our family thinks it is for sure. but it's not....



Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book ***** Print on Demand *****. ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to expand and inspire young minds; this is...



Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]

Createspace, United States, 2013. Paperback. Book Condition: New. 248 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****. ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to expand and inspire young minds; this is...



California Version of Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package

Pearson, United States, 2015. Loose-leaf. Book Condition: New. 10th. 249 x 201 mm. Language: English . Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies other than Pearson, the access codes for...