



Science of Engineering Materials and Carbon Nanotubes (3rd Revised edition)

By C.M. Srivastava, C. Srinivasan

New Academic Science Ltd. Hardback. Book Condition: new. BRAND NEW, Science of Engineering Materials and Carbon Nanotubes (3rd Revised edition), C.M. Srivastava, C. Srinivasan, Part I provides the essential classical and quantum laws on which the correlation between properties and structures of materials is explained. It covers the traditional engineering materials, metals and alloys, semiconductors, polymers, dielectrics, amorphous solids, superconductors and materials for magnetic, nuclear, space and laser applications. The recent discovery of carbon nanotubes (CNT) has led to nanotechnology and exciting applications in biology, medicine, textiles, energy, transportation and electronic devices. An update to this edition as Part II of the book is the physical description of CNT, the method of their production, the classical and quantum aspects of their properties and the way these differ from the three-dimensional materials discussed in Part I. The author accounts for the difference in properties like electrical and thermal conduction in copper and carbon nanotubes on models that differ due to dimensionality of the material.

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