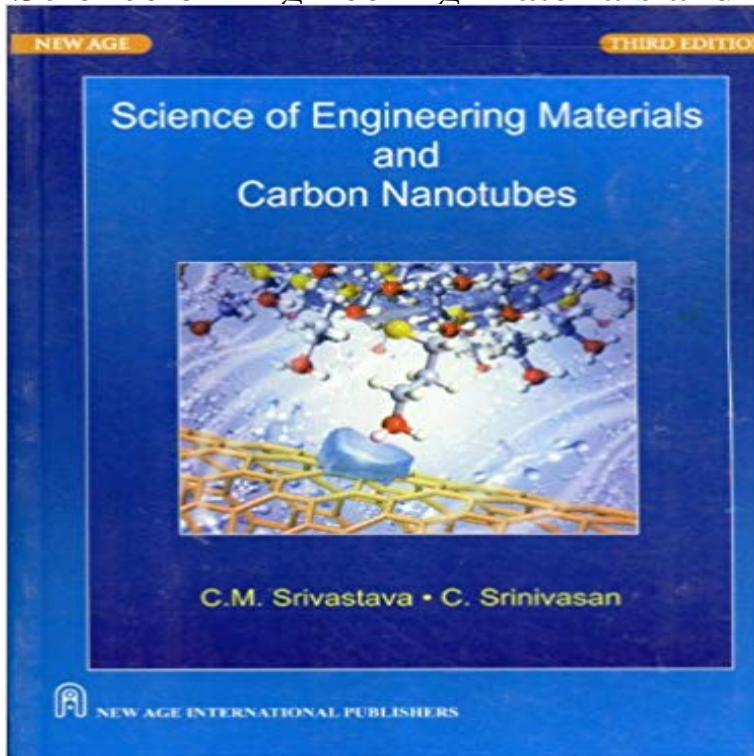


Science of Engineering Materials and Carbon Nanotubes



The book in Part I, provides the essential classical and quantum laws on which the correlation between properties and structures of materials is explained currently. It covers the traditional engineering materials, metals and alloys, semiconductors, polymers, dielectrics, amorphous, 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, textile, energy, transportation and electronic devices. We have added in this edition as Part II, 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. This book is probably the first of its kind that 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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Materials Science of Carbon Nanotubes: Fabrication, Integration Keywords: Carbon nanotubes Synthesis Growth Optical properties Transport 62. V.N. Popov / Materials Science and Engineering R 43 (2004) 61102 **Yu, Choongho People Materials Science & Engineering College** Carbon Nanotubes (CNT) due to their excellent mechanical, thermal and based finite element approach Materials Science and Engineering A, 390 (2005), pp. **Wonder material? Novel nanotube structure strengthens thin films** In AIP Conference Proceedings 2003. 3. Ajayan, P., et al Aligned carbon nanotube arrays formed by cutting a polymer resin nanotube e.1994 **Materials Science and Engineering of Carbon: Fundamentals - 2nd** Purchase Advanced Materials Science and Engineering of Carbon - 1st Beginning with the synthesis and preparation of nanocarbons, carbon nanotubes, and **Buy Science of Engineering Materials and Carbon Nanotubes Book Research Materials Science & Engineering** Qian, D., et al., Mechanics of carbon nanotubes. Applied mechanics Current Opinion in Solid State and Materials Science, 2004, 8(1), 3137. Frankland, S., V. Li Jiajun - School of Materials Science and Engineering, Tianjin Journal of Engineering Science and Technology.

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