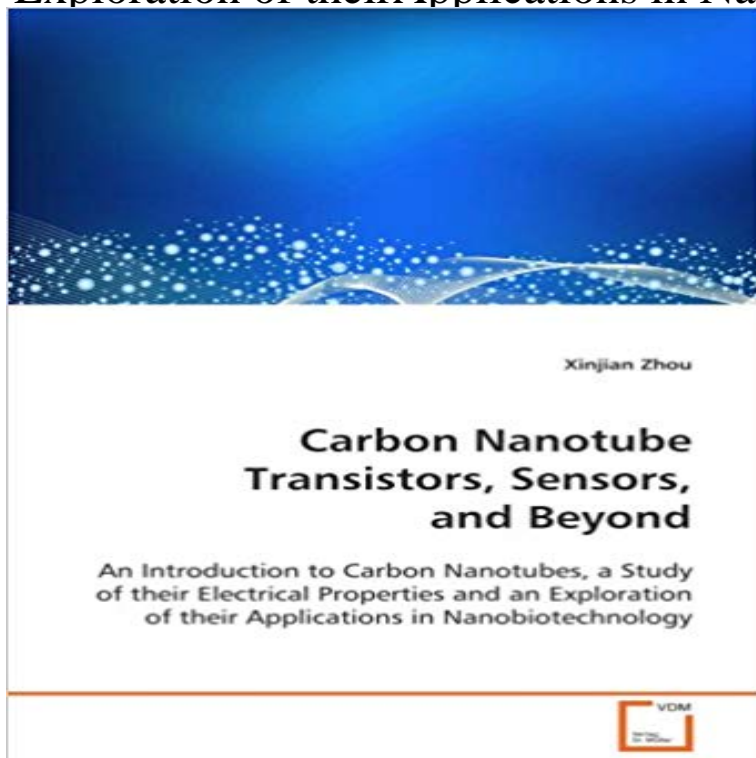


Carbon Nanotube Transistors, Sensors, and Beyond: An Introduction to Carbon Nanotubes, a Study of their Electrical Properties and an Exploration of their Applications in Nanobiotechnology



Carbon nanotubes are tiny hollow cylinders, made from a single graphene sheet, that possess many amazing properties. Another reason why nanotubes have generated intense research activities from scientists of various disciplines is that they represent a new class of materials for the study of one-dimensional physics. In this book we investigate the electrical transport of semiconducting single-walled carbon nanotubes and their potential applications as biological sensors. In the first part of the book, electron-phonon scatterings are studied both experimentally and theoretically, clarifying the nature of electrical transport in nanotubes and setting a performance limit of nanotube devices in diffusive regime. In the second part of this book, we discuss the advantages of nanotubes as a key element in future biosensors. We will show how we can integrate nanotubes with supported lipid bilayers, mimic structures of cell membranes, and use this platform as a way to introduce biomolecules into the vicinity of nanotubes for sensing purpose. Throughout the book, necessary background information and introductions are provided.

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