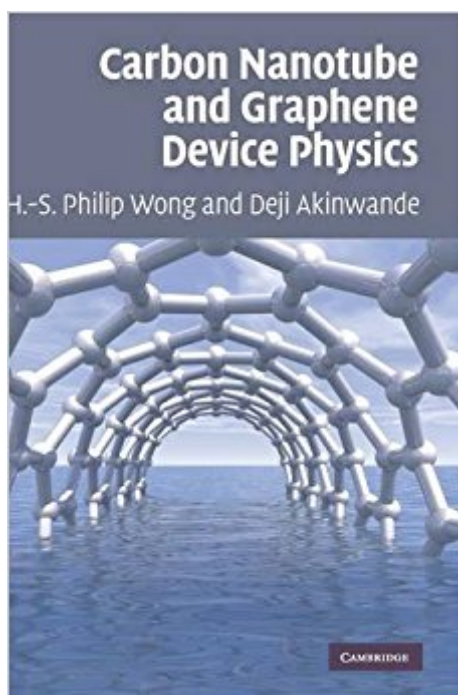


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Carbon Nanotube And Graphene Device Physics



Synopsis

Explaining the properties and performance of practical nanotube devices and related applications, this is the first introductory textbook on the subject. All the fundamental concepts are introduced, so that readers without an advanced scientific background can follow all the major ideas and results. Additional topics covered include nanotube transistors and interconnects, and the basic physics of graphene. Problem sets at the end of every chapter allow readers to test their knowledge of the material covered and gain a greater understanding of the analytical skill sets developed in the text. This is an ideal textbook for senior undergraduate and graduate students taking courses in semiconductor device physics and nanoelectronics. It is also a perfect self-study guide for professional device engineers and researchers.

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"An excellent and timely volume on the physics and applications of carbon nanotubes. A must read for students and researchers in this hot field." Yuan Taur, UCSD
"This is the textbook that I have been aspiring to see for a long time. With excellent timing, the authors provide one that covers device physics of carbon nanotubes in a coherent, systematic way. The content is perfectly designed and formulated such that both students with little knowledge and researchers

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Explaining the properties and performance of practical nanotube devices and applications, this is the first introductory textbook on the subject. Fundamental concepts are introduced for those without an advanced scientific background, whilst end-of-chapter problems aid and test understanding. Topics covered include nanotube transistors, interconnects, and the basic physics of graphene.

This book presents the main properties of graphene and carbon nanotubes in a very nice and clear way. It will be regarded as a good introduction on the topic for years to come. The mathematics is not involved, meaning that a recent graduate in engineering or physics should be able to follow the derivations. It also covers many applications of these devices, what is good for practitioners.

The definitive and current reference for carbon nanotube physics, mathematics can be transferred to engineering applications. Not for the novice. The book is an excellent text for material behavior understanding for those in the semiconductor device design or inspection and metrology fields.

Book is in excellent condition and it is a great book for the beginners in CNT and Graphene world

Excellent book on the subject; I found it easy to read and great coverage of the subject. However, the quantum mechanical treatment of the subject requires prior knowledge. All in all it is a great book..

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