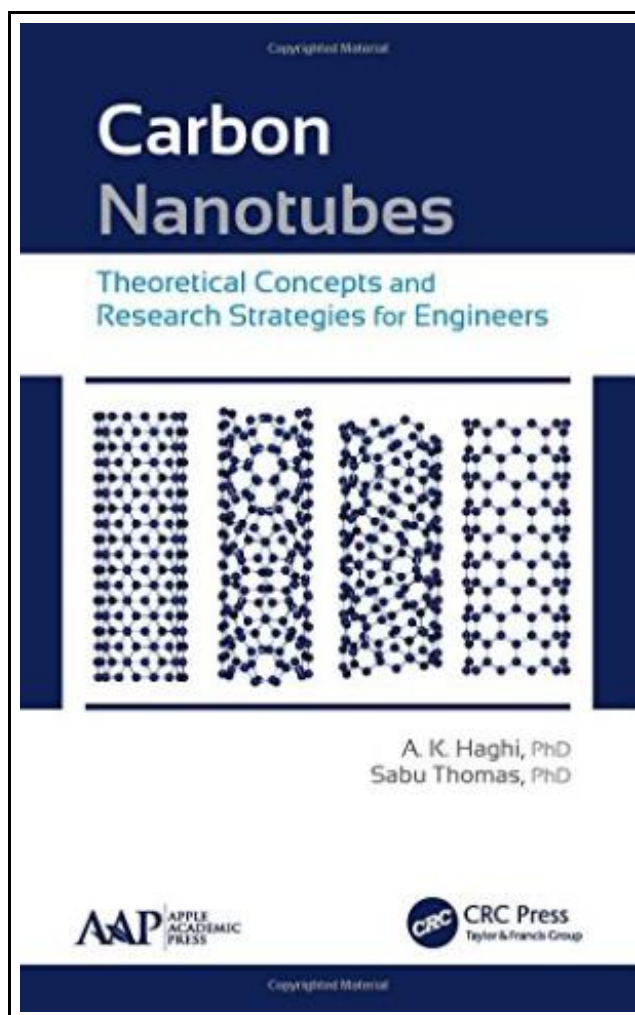


## Carbon Nanotubes: Theoretical Concepts and Research Strategies for Engineers



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***(Dr. Benjamin Lakin)***

## CARBON NANOTUBES: THEORETICAL CONCEPTS AND RESEARCH STRATEGIES FOR ENGINEERS



Apple Academic Press Inc. Hardback. Book Condition: new. BRAND NEW, Carbon Nanotubes: Theoretical Concepts and Research Strategies for Engineers, A. K. Haghi, Sabu Thomas, This book presents the diversity of recent advances in carbon nanotubes from a broad perspective that will be useful for scientists as well as for graduate students and engineers. Presenting leading-edge research in this dynamic field, this volume is an introduction to the physical concepts needed for investigating carbon nanotubes and other one-dimensional solid-state systems. Written for a wide scientific readership, each chapter consists of an instructive approach to the topic and sustainable ideas for solutions. Carbon nanotubes, with their extraordinary mechanical and unique electronic properties, have garnered much attention in recent years. With a broad range of potential applications, including nanoelectronics, composites, chemical sensors, biosensors, microscopy, nanoelectromechanical systems, and many more, the scientific community is more motivated than ever to move beyond basic properties and explore the real issues associated with carbon nanotube-based applications. Carbon nanotubes are exceptionally interesting from a fundamental research point of view. They open up new perspectives for various applications, such as nano-transistors in circuits, field-emission displays, artificial muscles, or added reinforcements in alloys. This book reviews the recent progress in modeling of carbon nanotubes and their composites. The advantages and disadvantages of different methods are discussed. The ability of continuum methods to bridge different scales is emphasized. Recommendations for future research are given by focusing on what each method has to learn from the nano-scale. The scope of the book is to provide current knowledge aiming to support researchers entering the scientific area of carbon nanotubes to choose the appropriate modeling tool for accomplishing their study and place their efforts to further improve continuum methods.



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