1. Record Nr. UNINA9910787834103321

Autore	Haghi A. K.
Titolo	Carbon nanotubes : theoretical concepts and research strategies for engineers / / A.K. Haghi, PhD, and Sabu Thomas, PhD
Pubbl/distr/stampa	Toronto : , : Apple Academic Press, , [2015] ©2015
ISBN	1-77463-365-5 0-429-16230-8 1-4822-5987-7
Descrizione fisica	1 online resource (356 p.)
Disciplina	620.5
Soggetti	Nanotubes Nanostructured materials Carbon
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Cover; About the Authors; Contents; List of Abbreviations; List of Symbols; Preface; Chapter 1: Basic Concepts; Chapter 2: Mathematical Modeling; Chapter 3: Simulation; Chapter 4: Molecular Modeling and Simulation; Chapter 5: Mechanic Quantum and Thermodynamic in Nanoelements; Chapter 6: Computational Methods and Evaluation; References; Appendix; Back Cover
Sommario/riassunto	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 pr