



# Computational Physics of Carbon Nanotubes

By Hashem Rafii-Tabar

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2009. Paperback. Book Condition: New. Reissue. 236 x 170 mm. Language: English Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Carbon nanotubes are the fabric of nanotechnology. Investigation into their properties has become one of the most active fields of modern research. This book presents the key computational modelling and numerical simulation tools to investigate carbon nanotube characteristics. In particular, methods applied to geometry and bonding, mechanical, thermal, transport and storage properties are addressed. The first half describes classic statistical and quantum mechanical simulation techniques, (including molecular dynamics, Monte Carlo simulations and ab initio molecular dynamics), atomistic theory and continuum based methods. The second half discusses the application of these numerical simulation tools to emerging fields such as nanofluidics and nanomechanics. With selected experimental results to help clarify theoretical concepts, this is a self-contained book that will be of interest to researchers in a broad range of disciplines, including nanotechnology, engineering, materials science and physics.



#### Reviews

Good eBook and helpful one. It really is writter in straightforward words and phrases and never confusing. I am just effortlessly could possibly get a enjoyment of looking at a published book.

-- Romaine Rippin

The book is great and fantastic. it absolutely was writtern very properly and beneficial. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- Lyda Davis II

## Other Books



Children's Educational Book Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]

Createspace, United States, 2013. Paperback. Book Condition: New. 248 x 170 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to expand and inspire young minds; this is...



## Carnival Overture, Op.92 / B.169: Study Score

Petrucci Library Press, United States, 2015. Paperback. Book Condition: New. 244 x 170 mm. Language: English. Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. The Carnival Overture, Op.92 - second of the set of three concert overtures originally entitled as Nature, Life...



#### Cello Concerto, Op. 104 / B. 191: Study Score

Petrucci Library Press, United States, 2013. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Dvorak had long refused the repeated requests for a cello concerto from his friend, the renowned cellist Hanus...



## Stories of Addy and Anna: Second Edition

Mohd Shahran Bin Daud, United States, 2015. Paperback. Book Condition: New. Siti Haziqah Samsul (illustrator). 244 x 170 mm. Language: English. Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*\*. Delightful, Colorful and Fun Learning Book for Age 3-5 Parents and teachers, this...



## Suite in E Major, Op. 63: Study Score

Petrucci Library Press, United States, 2013. Paperback. Book Condition: New. 244 x 170 mm. Language: English. Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Composed originally in four movements during 1907-08, Foote dropped the Theme and Variations while revising the work prior...



## Hussite Overture, Op. 67 / B. 132: Study Score

Petrucci Library Press, United States, 2013. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Comissioned by the Committee for the Completion of the National Theatre, Dvorak composed this work in exactly one...