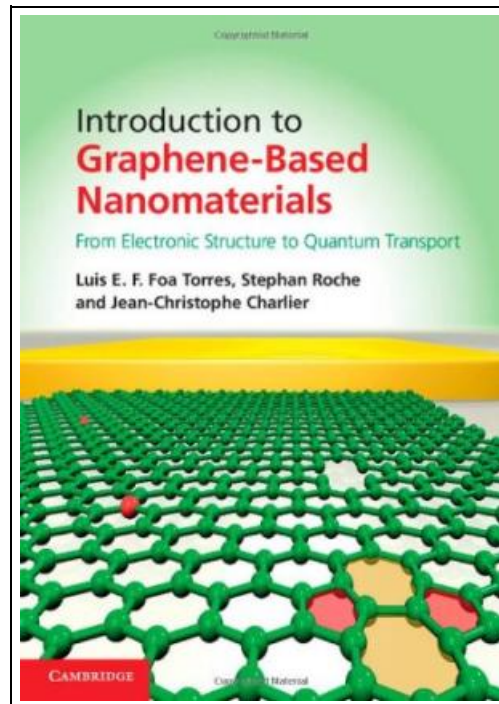


Introduction to Graphene-Based Nanomaterials



Filesize: 5.31 MB

Reviews

This is actually the very best pdf i actually have study till now. I am quite late in start reading this one, but better then never. You will like just how the author publish this ebook.

(Junior Lesch)

INTRODUCTION TO GRAPHENE-BASED NANOMATERIALS

[DOWNLOAD PDF](#)

Condition: New. Publisher/Verlag: Cambridge University Press | From Electronic Structure to Quantum Transport | A detailed primer describing the most effective theoretical and computational methods and tools for simulating graphene-based systems. | Beginning with an introduction to carbon-based nanomaterials, their electronic properties, and general concepts in quantum transport, this detailed primer describes the most effective theoretical and computational methods and tools for simulating the electronic structure and transport properties of graphene-based systems. Transport concepts are clearly presented through simple models, enabling comparison with analytical treatments, and multiscale quantum transport methodologies are introduced and developed in a straightforward way, demonstrating a range of methods for tackling the modelling of defects and impurities in more complex graphene-based materials. The authors also discuss the practical applications of this revolutionary nanomaterial, contemporary challenges in theory and simulation, and long-term perspectives. Containing numerous problems for solution, real-life examples of current research, and accompanied online by further exercises, solutions and computational codes, this is the perfect introductory resource for graduate students and researchers in nanoscience and nanotechnology, condensed matter physics, materials science and nanoelectronics. | 1. Introduction to carbon-based nanostructures; 2. Electronic properties of carbon-based nanostructures; 3. Quantum transport: general concepts; 4. Klein tunnelling and ballistic transport in graphene and related materials; 5. Quantum transport in disordered graphene-based materials; 6. Quantum transport beyond DC; 7. Ab initio and multiscale quantum transport in graphene-based materials; 8. Applications; Appendix A. Electronic structure calculations: the density functional theory; Appendix B. Electronic structure calculations: the many-body perturbation theory; Appendix C. Green's functions and ab initio quantum transport in the Landauer Büttiker formalism; Appendix D. Recursion methods for computing DOS and wavepacket dynamics; Index. | Format: Hardback | Language/Sprache: english | 976 gr | 241x163x24 mm | 456 pp.

[Read Introduction to Graphene-Based Nanomaterials Online](#)[Download PDF Introduction to Graphene-Based Nanomaterials](#)

See Also



Plants vs. Zombies game book - to play the stickers 2 (puzzle game swept the world. most played together)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date: Unknown Pages: 28 in Publisher: China Children Press List Price: 13.00...

[Download ePub »](#)



Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success

Brookes Publishing Co. Paperback. Book Condition: new. BRAND NEW, Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success, Eva M. Horn, Susan B. Palmer, Gretchen D. Butera, Joan A. Lieber, How...

[Download ePub »](#)



Creative Thinking and Arts-Based Learning : Preschool Through Fourth Grade

Book Condition: Brand New. Book Condition: Brand New.

[Download ePub »](#)



Studyguide for Creative Thinking and Arts-Based Learning : Preschool Through Fourth Grade by Joan Packer Isenberg ISBN: 9780131188310

2011. Softcover. Book Condition: New. 4th. 8.25 x 11 in. Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights,...

[Download ePub »](#)



A Year Book for Primary Grades; Based on Froebel s Mother Plays

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download...

[Download ePub »](#)