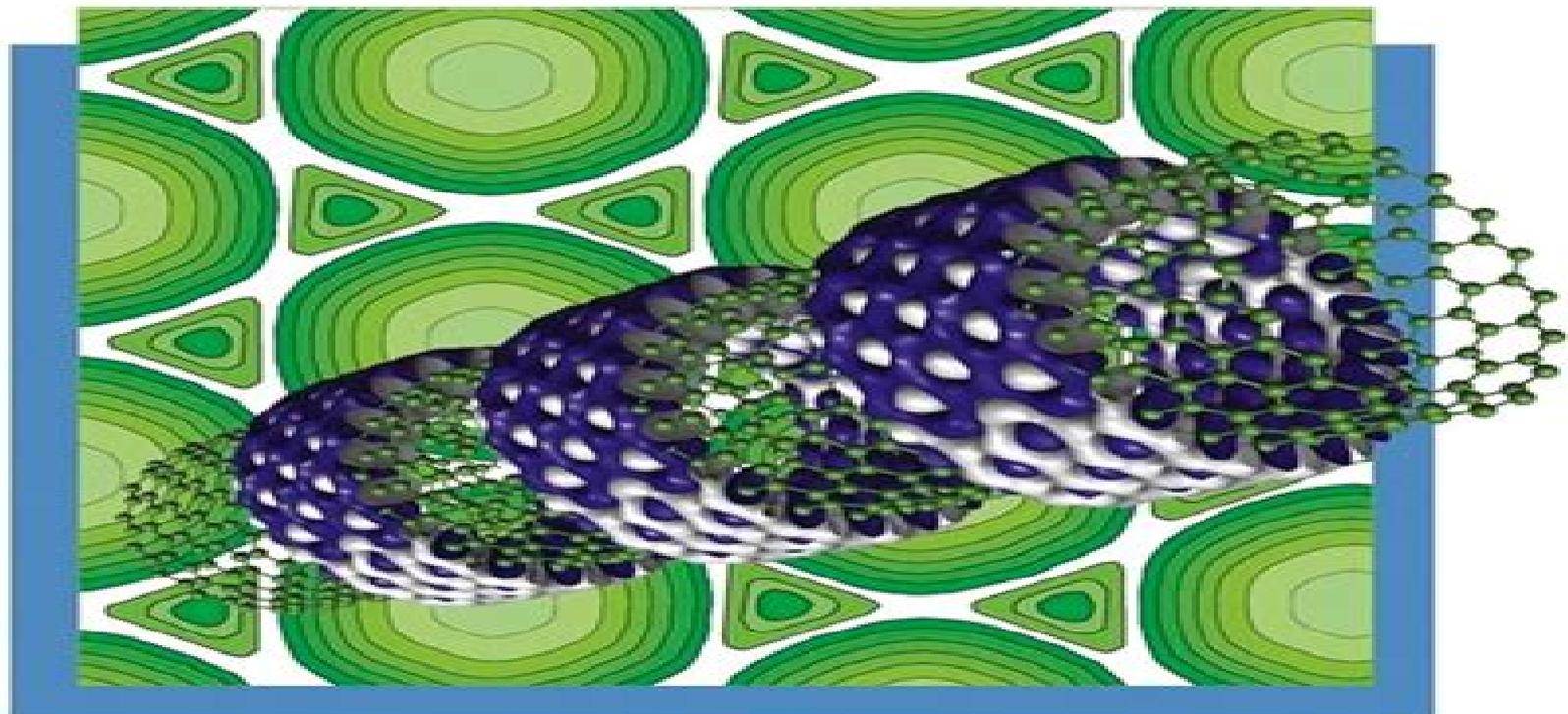


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Carbon Nanotubes

Basic Concepts and Physical Properties



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Bououdina, Mohamed, Davim, J. Paulo

Carbon Nanotubes Basic Concepts And Physical Properties:

Carbon Nanotubes Stephanie Reich, Christian Thomsen, Janina Maultzsch, 2008-09-26 Carbon nanotubes are exceptionally interesting from a fundamental research point of view. Many concepts of one-dimensional physics have been verified experimentally such as electron and phonon confinement or the one-dimensional singularities in the density of states. Other 1D signatures are still under debate such as Luttinger liquid behavior. Carbon nanotubes are chemically stable, mechanically very strong, and conduct electricity. For this reason, 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 text 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. The former is generally comprehensible for physicists and chemists, while the latter enables the reader to work towards the state of the art in that area. The book gives for the first time a combined theoretical and experimental description of topics like luminescence of carbon nanotubes, Raman scattering, or transport measurements. The theoretical concepts discussed range from the tight-binding approximation, which can be followed by pencil and paper, to first-principles simulations. We emphasize a comprehensive theoretical and experimental understanding of carbon nanotubes, including general concepts for one-dimensional systems, an introduction to the symmetry of nanotubes, textbook models of nanotubes as narrow cylinders, a combination of *ab initio* calculations and experiments, luminescence excitation spectroscopy linked to Raman spectroscopy, an introduction to the 1D transport properties of nanotubes, effects of bundling on the electronic and vibrational properties, and resonance Raman scattering in nanotubes. *Physical Properties Of Carbon Nanotubes* G Dresselhaus, Mildred S Dresselhaus, Riichiro Saito, 1998-07-22 This is an introductory textbook for graduate students and researchers from various fields of science who wish to learn about carbon nanotubes. The field is still at an early stage and progress continues at a rapid rate. This book focuses on the basic principles behind the physical properties and gives the background necessary to understand the recent developments. Some useful computational source codes which generate coordinates for carbon nanotubes are also included in the appendix. Nanotubes and Nanowires Peter John Burke, 2007 The field of nanotubes and nanowires is evolving at a rapid pace with many potential applications in electronics, optics, and sensors, to name a few. In this book, various prominent researchers summarize our current understanding of these new materials systems as well as some of these potential applications. A snapshot of the state of the art in the field of nanowires and nanotubes, the contributions give an instructive mix of experimental, theoretical, and visionary material to give the reader an indication of where the field is now and where it is going. With several points of view represented, including academic theoreticians, academic experimental device engineers, and industry researchers from well-known semiconductor companies, *Nanotubes and Nanowires* is an essential source of reference for physicists, chemists, materials scientists, and graduate

students interested in keeping abreast of the latest developments in nanotechnology *Handbook of Research on Nanoscience, Nanotechnology, and Advanced Materials* Bououdina, Mohamed, Davim, J. Paulo, 2014-03-31 The burgeoning field of nanotechnology has led to many recent technological innovations and discoveries Understanding the impact of these technologies on business science and industry is an important first step in developing applications for a variety of settings and contexts Handbook of Research on Nanoscience Nanotechnology and Advanced Materials presents a detailed analysis of current experimental and theoretical approaches surrounding nanomaterials science With applications in fields such as biomedicine renewable energy and synthetic materials the research in this book will provide experimentalists professionals students and academics with an in depth understanding of nanoscience and its impact on modern technology

Nanobiomaterials Dong Yi, Georgia C. Papaefthymiou, 2013-08-14 There is a continuous exchange of ideas taking place at the border of the biological and physical sciences in many areas of nanoscience Nanotechnology uses biomimetic or bio inspired processes to produce nanosized materials for applications in biology and other fields In return the fruits of nanotechnology are applied to expanding areas of biomedicine *Advances in Elastomers I* P. M. Visakh, Sabu Thomas, Arup K. Chandra, Aji. P. Mathew, 2013-03-29 This is the first volume of a two volume work which summarizes in an edited format and in a fairly comprehensive manner many of the recent technical research accomplishments in the area of Elastomers *Advances in Elastomers* discusses the various attempts reported on solving these problems from the point of view of the chemistry and the structure of elastomers highlighting the drawbacks and advantages of each method It summarizes the importance of elastomers and their multiphase systems in human life and industry and covers all the topics related to recent advances in elastomers their blends IPNs composites and nanocomposites This first volume focuses on advances on the blends and interpenetrating networks IPNs of elastomers *Nanotechnology at the Leading Edge* Eugene V. Diro, 2006 Nanotechnology is a catch all description of activities at the level of atoms and molecules that have applications in the real world A nanometre is a billionth of a meter about 1/80 000 of the diameter of a human hair or 10 times the diameter of a hydrogen atom Nanotechnology is now used in precision engineering new materials development as well as in electronics electromechanical systems as well as mainstream biomedical applications in areas such as gene therapy drug delivery and novel drug discovery techniques This book presents the latest research in this frontier field *Nanoscience, Nanotechnology and Nanoengineering* Mohamad Hafiz Mamat, Zuraida Khusaimi, Suriani Abu Bakar, Mohd Nor Asiah, Tetsuo Soga, Mohamad Rusop Mahmood, 2013-11-21 Selected peer reviewed papers from the International Conference on Nanoscience Nanotechnology 2013 NANO SciTech 2013 March 1-4 2013 Shah Alam Selangor Malaysia What is What in the Nanoworld Viktor Evgen'evich Borisenko, Stefano Ossicini, 2004-11-10 It is an introductory reference handbook that summarizes terms and definitions most important phenomena regulations experimental and theoretical tools discovered in physics chemistry technology and the application of nanostructures We present a representative collection of fundamental

terms and most important supporting definitions taken from general physics and quantum mechanics material science and technology mathematics and information theory organic and inorganic chemistry solid state physics and biology As a result fast progressing nanoelectronics and optoelectronics molecular electronics and spintronics nano fabrication and manufacturing bioengineering and quantum processing of information an area of fundamental importance for the information society of the 21st century are covered More than 1300 entries from a few sentences to a page in length are given for beginners to professionals Nanotechnology **Polymer Composites and Polymer Testing** Hong Kui Mao,Deepak Aggarwal,Menghai Lee,Hong Fei Liu,Mao Tai Zhao,2012-04-12 Selected peer reviewed papers from the 2012 International Symposium on Polymer Composites and Polymer Testing ISPCPT 2012 March 23 25 2012 Hangzhou Zhejiang China

Polymer Science: A Comprehensive Reference ,2012-12-05 The progress in polymer science is revealed in the chapters of Polymer Science A Comprehensive Reference Ten Volume Set In Volume 1 this is reflected in the improved understanding of the properties of polymers in solution in bulk and in confined situations such as in thin films Volume 2 addresses new characterization techniques such as high resolution optical microscopy scanning probe microscopy and other procedures for surface and interface characterization Volume 3 presents the great progress achieved in precise synthetic polymerization techniques for vinyl monomers to control macromolecular architecture the development of metallocene and post metallocene catalysis for olefin polymerization new ionic polymerization procedures and atom transfer radical polymerization nitroxide mediated polymerization and reversible addition fragmentation chain transfer systems as the most often used controlled living radical polymerization methods Volume 4 is devoted to kinetics mechanisms and applications of ring opening polymerization of heterocyclic monomers and cycloolefins ROMP as well as to various less common polymerization techniques Polycondensation and non chain polymerizations including dendrimer synthesis and various click procedures are covered in Volume 5 Volume 6 focuses on several aspects of controlled macromolecular architectures and soft nano objects including hybrids and bioconjugates Many of the achievements would have not been possible without new characterization techniques like AFM that allowed direct imaging of single molecules and nano objects with a precision available only recently An entirely new aspect in polymer science is based on the combination of bottom up methods such as polymer synthesis and molecularly programmed self assembly with top down structuring such as lithography and surface templating as presented in Volume 7 It encompasses polymer and nanoparticle assembly in bulk and under confined conditions or influenced by an external field including thin films inorganic organic hybrids or nanofibers Volume 8 expands these concepts focusing on applications in advanced technologies e g in electronic industry and centers on combination with top down approach and functional properties like conductivity Another type of functionality that is of rapidly increasing importance in polymer science is introduced in volume 9 It deals with various aspects of polymers in biology and medicine including the response of living cells and tissue to the contact with biofunctional particles and surfaces The last volume is

devoted to the scope and potential provided by environmentally benign and green polymers as well as energy related polymers They discuss new technologies needed for a sustainable economy in our world of limited resources Provides broad and in depth coverage of all aspects of polymer science from synthesis polymerization properties and characterization methods and techniques to nanostructures sustainability and energy and biomedical uses of polymers Provides a definitive source for those entering or researching in this area by integrating the multidisciplinary aspects of the science into one unique up to date reference work Electronic version has complete cross referencing and multi media components Volume editors are world experts in their field including a Nobel Prize winner **Zeitschrift Für Kristallographie** ,2004

Macromolecules, Volume 2 Hans-Georg Elias,2006-12-15 Macromolecules provides a broad survey of the entire subject integrated representations of chemistry physics and technology precise descriptions and definitions of basic phenomena and balanced treatments of facts and theory The book series thus intends to bridge the gap between introductory textbooks and the highly specialized texts and monographs that cover only part of polymer science and technology Volume I is concerned with the fundamentals of chemical structure and principles of synthesis of macromolecules constitution configuration conformation polymerization equilibria polymerization mechanisms ionic coordination free radical step reactions including solid state and biochemical polymerizations polymer reactions and strategies for defined polymer architectures Volume II discusses individual polymers and their industrial syntheses Volume III the fundamentals of physical structures and properties and Volume IV the processing and application of polymers as plastics fibers elastomers thickeners etc The world of macromolecules in a nutshell **Physical and Chemical Properties of Carbon Nanotubes** Satoru Suzuki,2013-02-27 Carbon nanotubes are rolled up graphene sheets with a quasi one dimensional structure of nanometer scale diameter In these last twenty years carbon nanotubes have attracted much attention from physicists chemists material scientists and electronic device engineers because of their excellent structural electronic optical chemical and mechanical properties Carbon nanotube research especially that aiming at industrial applications is becoming more important This book covers recent research topics regarding the physical structural chemical and electric properties on carbon nanotubes All chapters were written by researchers who are active on the front lines The chapters in this book will be helpful to many students engineers and researchers working in the field of carbon nanotubes The Influence of Defects on the Electrochemical Properties of Multi-walled Carbon Nanotubes Jeffrey Adam Nichols,2007 Atomistic Modeling of the Phonon Dispersion in Carbon Nanotubes Mayank Varshney,2004 *Russian Journal of Physical Chemistry* ,2008

Understanding Carbon Nanotubes Annick Loiseau,Pascale Launois-Bernede,Pierre Petit,Stephan Roche,Jean-Paul Salvetat,2006-08-29 This volume presents the foundations of carbon nanotube science reviewing recent developments and prospects for practical application Each chapter summarizes relevant concepts from physics chemistry or materials science followed by detailed reports on topics including polymorphism and microstructure of carbon synthesis and growth structural

analysis by electron microscopy spectroscopic methods electronic structure transport mechanical and surface properties of nanotubes and composites **Advanced Concepts in Mechanical Engineering II** Ioan Doroftei,Cezar Opreșan,Aristotel Popescu,2014-10-01 Selected peer reviewed papers from a collection of papers from the 6th International Conference on Advanced Concepts in Mechanical Engineering ACME 2014 June 12 13 2014 Iasi Romania *Journal of Nanoscience and Nanotechnology* ,2006

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