

Double Walled Carbon Nanotube Dispersion Via Surfactant

John Meurig Thomas, W. John Thomas

Solubilization and Dispersion of Carbon Nanotubes Oxana Vasilievna Kharissova, Boris Ildusovich

Kharisov, 2017-09-01 This book describes a series of contemporary techniques and their combinations used for CNTs solubilization, from physical to chemical and biological, applying inorganic and organic compounds, as well as some metal complexes. In some cases, successive steps can be applied, for instance the use of low and high-weight surfactants, or mineral acid treatment for creation of -OH and -COOH groups and their further interaction with organic molecules. Each discussed method leads to an improvement of CNT solubility, frequently a considerable one. The formed dispersions can be stable for long periods of time, from several weeks to some months, and they sometimes even remain stable after centrifugation. Several special studies have been carried out in the areas of influence of solvent and light on CNTs dispersibility, combinations and abilities of surfactants, CNT cytotoxicity, etc. Applications of solubilized CNTs are discussed in this book as well.

Carbon Nanotube-polymer Composites Dimitrios Tasis, 2013 The purpose of this book is to summarize the basic chemical aspects for obtaining multifunctional carbon nanotube-based polymer composites, but also to highlight some of the most remarkable advances that occurred in the field during the last recent years.

The New Dynamic Public Finance Narayana R. Kocherlakota, 2010-07-01 Optimal tax design attempts to resolve a well-known trade-off: namely, that high taxes are bad insofar as they discourage people from working, but good to the degree that, by redistributing wealth, they help insure people against productivity shocks. Until recently, however, economic research on this question either ignored people's uncertainty about their future productivities or imposed strong and unrealistic functional form restrictions on taxes. In response to these problems, the new dynamic public finance was developed to study the design of optimal taxes given only minimal restrictions on the set of possible tax instruments, and on the nature of shocks affecting people in the economy. In this book, Narayana Kocherlakota surveys and discusses this exciting new approach to public finance. An important book for advanced PhD courses in public finance and macroeconomics, *The New Dynamic Public Finance* provides a formal connection between the problem of dynamic optimal

taxation and dynamic principal-agent contracting theory. This connection means that the properties of solutions to principal-agent problems can be used to determine the properties of optimal tax systems. The book shows that such optimal tax systems necessarily involve asset income taxes, which may depend in sophisticated ways on current and past labor incomes. It also addresses the implications of this new approach for qualitative properties of optimal monetary policy, optimal government debt policy, and optimal bequest taxes. In addition, the book describes computational methods for approximate calculation of optimal taxes, and discusses possible paths for future research.

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.

Doping of Carbon Nanotubes Sergey Bulyarskiy, Alexandr Saurov, 2017-07-01 This book addresses the control of electronic properties of carbon nanotubes. It presents thermodynamic calculations of the formation of impurities and defects in the interaction of nanotubes with hydrogen, oxygen, nitrogen and boron, based on theoretical models of the formation of defects in carbon nanotubes. It is shown that doping and adsorption lead to changes in the electronic structure of the tubes as well as to the appearance of impurity states in the HOMO-LUMO gap. The book presents examples of specific calculations for doping of carbon nanotubes with oxygen, hydrogen, nitrogen and boron, together with numerous experimental results and a comparison with the author's thermodynamic calculations. Possible directions of the technological processes of optimization are pointed out, as well as the perspectives of p-n-transition creation with the help of carbon nanotube arrays. The results presented were derived from the physics of the processes and a theoretical model of the technological processes. Though a wealth of empirical information on doping nanotubes has been accumulated in the scientific literature, what is lacking is a theoretical model for their analysis. As such, the book develops a thermodynamic model of the self-organization of structural elements in multicomponent systems - including carbon nanotubes, clusters and precipitates in condensed matter - and subsequently adapts it to the doping of carbon nanotubes. This approach allows readers to gain a far deeper understanding of the processes of doping carbon nanotubes.

Carbon Nanotubes Mohamed Berber, Inas Hazzaa Hafez, 2016-07-20 This book shows the recent advances of the applications of carbon nanotubes (CNTs), in particular, the polymer functionalized carbon nanotubes. It also includes a comprehensive description of carbon nanotubes' preparation, properties, and characterization. Therefore, we have attempted to provide detailed information about the polymer-carbon nanotube composites. With regard to the unique structure and properties of carbon nanotubes, a series of important findings have been reported. The unique properties of carbon

nanotubes, including thermal, mechanical, and electrical properties, after polymer functionalization have been documented in detail. This book comprises 18 chapters. The chapters include different applications of polymer functionalization CNTs, e.g. photovoltaic, biomedical, drug delivery, gene delivery, stem cell therapy, thermal therapy, biological detection and imaging, electroanalytical, energy, supercapacitor, and gas sensor applications.

Handbook of Organic Compounds: Methods and Interpretations Jerry Workman, 2001 For students and vibrational spectroscopists working in molecular spectroscopy labs and dealing daily with spectral interpretation and data processing of organic spectra, polymers, and surfactants. This three-volume compendium contains detailed descriptions and reviews of ultraviolet, visible, near-infrared, Raman, and dielectric measurement techniques, as well as interpretive techniques, and information on all spectra, which are presented in terms of wavenumber and transmittance. Ultraviolet, visible, 4th-overtone NIR, 3rd-overtone NIR, and NIR spectra are also presented in terms of nanometers and absorbance space; and horizontal ATR spectra are presented in terms of wavenumber and absorbance space. The spectra found here are useful for identification purposes as well as for instruction in the various interpretive and data-processing techniques discussed. Editor Workman is employed at Kimberly-Clark Corporation. c. Book News Inc.

Single-Walled Carbon Nanotubes Yan Li, Shigeo Maruyama, 2019-05-16 The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The goal of each thematic volume is to give the non-specialist reader, whether in academia or industry, a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field.

Carbon Nanotubes for Biomedical Applications Rüdiger Klingeler, Robert B. Sim, 2011-02-09 This book explores the potential of multi-functional carbon nanotubes for biomedical applications. It combines contributions from chemistry, physics, biology, engineering, and medicine. The complete overview of the state-of-the-art addresses different synthesis and biofunctionalisation routes and shows the structural and magnetic properties of nanotubes relevant to biomedical applications. Particular emphasis is put on the interaction of carbon nanotubes with biological environments, i.e. toxicity, biocompatibility, cellular uptake, intracellular distribution, interaction with the immune system and environmental impact. The insertion of NMR-active substances allows diagnostic usage as markers and sensors, e.g. for imaging and contactless

local temperature sensing. The potential of nanotubes for therapeutic applications is highlighted by studies on chemotherapeutic drug filling and release, targeting and magnetic hyperthermia studies for anti-cancer treatment at the cellular level.

Carbon Nanotubes M. Endo, S. Iijima, M.S. Dresselhaus, 2013-10-22 Carbon nanotubes have been studied extensively in relation to fullerenes, and together with fullerenes have opened a new science and technology field on nano scale materials. A whole range of issues from the preparation, structure, properties and observation of quantum effects in carbon nanotubes in comparison with 0-D fullerenes are discussed. In addition, complementary reviews on carbon nanoparticles such as carbon nano-capsules, onion-like graphite particles and metal-coated fullerenes are covered. This book aims to cover recent research and development in this area, and so provide a convenient reference tool for all researchers in this field. It is also hoped that this book can serve to stimulate future work on carbon nanotubes.

Handbook of Carbon Nanotubes Jiji Abraham, Sabu Thomas, Nandakumar Kalarikkal, 2022-11-16 This Handbook covers the fundamentals of carbon nanotubes (CNT), their composites with different polymeric materials (both natural and synthetic) and their potential advanced applications. Three different parts dedicated to each of these aspects are provided, with chapters written by worldwide experts in the field. It provides in-depth information about this material serving as a reference book for a broad range of scientists, industrial practitioners, graduate and undergraduate students, and other professionals in the fields of polymer science and engineering, materials science, surface science, bioengineering and chemical engineering. Part 1 comprises 22 chapters covering early stages of the development of CNT, synthesis techniques, growth mechanism, the physics and chemistry of CNT, various innovative characterization techniques, the need of functionalization and different types of functionalization methods as well as the different properties of CNT. A full chapter is devoted to theory and simulation aspects. Moreover, it pursues a significant amount of work on life cycle analysis of CNT and toxicity aspects. Part 2 covers CNT-based polymer nanocomposites in approximately 23 chapters. It starts with a short introduction about polymer nanocomposites with special emphasis on CNT-based polymer nanocomposites, different manufacturing techniques as well as critical issues concerning CNT-based polymer nanocomposites. The text deeply reviews various classes of polymers like thermoset, elastomer, latex, amorphous thermoplastic, crystalline thermoplastic and polymer fibers used to prepare CNT based polymer composites. It provides detailed awareness about the characterization of polymer composites. The morphological, rheological, mechanical, viscoelastic, thermal, electrical, electromagnetic shielding properties are discussed in detail. A chapter dedicated to the simulation and multiscale modelling of polymer nanocomposites is an additional attraction of this part of the Handbook. Part 3 covers various potential applications of CNT in approximately 27 chapters. It focuses on individual applications of CNT including mechanical applications, energy conversion and storage applications, fuel cells and water splitting, solar cells and photovoltaics, sensing applications, nanofluidics, nanoelectronics

and microelectronic devices, nano-optics, nanophotonics and nano-optoelectronics, non-linear optical applications, piezo electric applications, agriculture applications, biomedical applications, thermal materials, environmental remediation applications, anti-microbial and antibacterial properties and other miscellaneous applications and multi-functional applications of CNT based polymer nanocomposites. One chapter is fully focussed on carbon nanotube research developments: published papers and patents. Risks associated with carbon nanotubes and competitive analysis of carbon nanotubes with other carbon allotropes are also addressed in this Handbook.

Inorganic and Composite Fibers Boris Mahltig, Yordan Kyosev, 2018-10-18 *Inorganic and Composite Fibers: Production, Properties, and Applications* provides a comprehensive review on the development, production and application of modern inorganic and composite fibers. Particular emphasis is placed on current production processes, parameters and finishing and functionalization methods for improving their properties and the problems associated with the testing of fibers. Fibers covered include carbon, glass and basalt fibers, metal fibers, such as copper and steel, fibers coated with silver or gold, and nitinol. In addition to pure inorganic fibers, the book looks at organic fibers with a high level of inorganic content, such as cellulosic fibers. Including contributions from leading experts from universities, research institutes, and producing companies, this book assists materials scientists and engineers in the composites, automotive, textile and medical industries to more efficiently and effectively select fibers for a range of different applications areas. - Presents a thorough introduction to inorganic fibers, such as carbon fiber and nanotubes, graphene, glass fibers, and many more, including the fundamentals of production, processing and finishing of each fiber type - Includes coverage of a range of application areas of inorganic fibers to assist in product development - Keeps researchers up-to-date by providing information on the latest developments in this field, thus supporting further research

Carbon Nanotubes Michael J. O'Connell, 2018-10-03 Since their discovery more than a decade ago, carbon nanotubes (CNTs) have held scientists and engineers in captive fascination, seated on the verge of enormous breakthroughs in areas such as medicine, electronics, and materials science, to name but a few. Taking a broad look at CNTs and the tools used to study them, *Carbon Nanotubes: Properties and Applications* comprises the efforts of leading nanotube researchers led by Michael O'Connell, protégé of the late father of nanotechnology, Richard Smalley. Each chapter is a self-contained treatise on various aspects of CNT synthesis, characterization, modification, and applications. The book opens with a general introduction to the basic characteristics and the history of CNTs, followed by discussions on synthesis methods and the growth of "peapod" structures. Coverage then moves to electronic properties and band structures of single-wall nanotubes (SWNTs), magnetic properties, Raman spectroscopy of electronic and chemical behavior, and electromechanical properties and applications in NEMS (nanoelectromechanical systems). Turning to applications, the final sections of the book explore mechanical properties of SWNTs spun into fibers, sidewall functionalization in composites, and using SWNTs as tips for

scanning probe microscopes. Taking a fresh look at this burgeoning field, *Carbon Nanotubes: Properties and Applications* points the way toward making CNTs commercially viable.

Carbon Nanomaterials Yury Gogotsi, Volker Presser, 2013-10-24 This book provides information on synthesis, properties, and applications of carbon nanomaterials. With novel materials, such as graphene (atomically flat carbon) or carbon onions (carbon nanospheres), the family of carbon nanomaterials is rapidly growing. This book provides a state-of-the-art overview and in-depth analysis of the most important ca

Carbon Nanotubes for Polymer Reinforcement Peng-Cheng Ma, Jang-Kyo Kim, 2011-03-22 Discovered in the twentieth century, carbon nanotubes (CNT) were an integral part of science and industry by the beginning of the twenty first century, revolutionizing chemistry, physics, and materials science. More recent advances in carbon nanotube production methods have resulted in a tremendous push to incorporate CNTs into polymer matrices. Al

Metal Oxide Nanocomposites B. Raneesh, Visakh P. M., 2021-02-17 *Metal Oxide Nanocomposites: Synthesis and Applications* summarizes many of the recent research accomplishments in the area of metal oxide-based nanocomposites. This book focussing on the following topics: Nanocomposites preparation and characterization of metal oxide nanocomposites; synthesis of core/shell metal oxide nanocomposites; multilayer thin films; sequential assembly of nanocomposite materials; semiconducting polymer metal oxide nanocomposites; graphene-based metal and metal oxide nanocomposites; carbon nanotube-metal-oxide nanocomposites; silicon mixed oxide nanocomposites; gas semiconducting sensors based on metal oxide nanocomposites; metal lorganic framework nanocomposite for hydrogen production and nanocomposites application towards photovoltaic and photocatalytic.

Interfacial Phenomena J.T. Davies, 2012-12-02 *Interfacial Phenomena* examines the fundamental properties of various liquid interfaces. This book discusses the physics of surfaces; electrostatic and electrokinetic phenomena; and adsorption at liquid interfaces. The properties of monolayers; reactions at liquid surfaces; diffusion through interfaces; and disperse systems and adhesion are also deliberated. Other topics include the vapor pressures over curved surfaces; electrical capacity of the double layer; applications of electrophoresis; and thermodynamics of adsorption and desorption. The experimental methods of spreading films at the oil-water interface; penetration into monolayers; experiments on dynamic systems; and spontaneous emulsification are likewise covered in this text. This book is beneficial to chemical engineers and students concerned with interfacial phenomena.

Principles and Practice of Heterogeneous Catalysis John Meurig Thomas, W. John Thomas, 2015-02-09 This long-awaited second edition of the successful introduction to the fundamentals of heterogeneous catalysis is now completely revised and updated. Written by internationally acclaimed experts, this textbook includes fundamentals of adsorption, characterizing catalysts and their surfaces, the significance of pore structure and surface area, solid-state and surface

chemistry, poisoning, promotion, deactivation and selectivity of catalysts, as well as catalytic process engineering. A final section provides a number of examples and case histories. With its color and numerous graphics plus references to help readers to easily find further reading, this is a pivotal work for an understanding of the principles involved.

Fundamentals of Conjugated Polymer Blends, Copolymers and Composites Parveen Saini, 2015-04-30 Since their discovery in 1977, the evolution of conducting polymers has revolutionized modern science and technology. These polymers enjoy a special status in the area of materials science yet they are not as popular among young readers or common people when compared to other materials like metals, paper, plastics, rubber, textiles, ceramics and composites like concrete. Most importantly, much of the available literature in the form of papers, specific review articles and books is targeted either at advanced readers (scientists / technologists / engineers / senior academicians) or for those who are already familiar with the topic (doctoral / postdoctoral scholars). For a beginner or even school / college students, such compilations are bit difficult to access / digest. In fact, they need proper introduction to the topic of conducting polymers including their discovery, preparation, properties, applications and societal impact, using suitable examples and already known principles/knowledge/phenomenon. Further, active participation of readers in terms of question & answers, fill-in-the-blanks, numerical along with suitable answer key is necessary to maintain the interest and to initiate the thought process. The readers also need to know about the drawbacks and any hazards of such materials. Therefore, I believe that a comprehensive source on the science / technology of conducting polymers which maintains a link between grass root fundamentals and state-of-the-art R&D is still missing from the open literature.

Chemistry of Nanocarbons Takeshi Akasaka, Fred Wudl, Shigeru Nagase, 2010-09-29 During the last decade, fullerenes and carbon nanotubes have attracted special interest as new nanocarbons with novel properties. Because of their hollow caged structure, they can be used as containers for atoms and molecules, and nanotubes can be used as miniature test-tubes. Chemistry of Nanocarbons presents the most up-to-date research on chemical aspects of nanometer-sized forms of carbon, with emphasis on fullerenes, nanotubes and nanohorns. All modern chemical aspects are mentioned, including noncovalent interactions, supramolecular assembly, dendrimers, nanocomposites, chirality, nanodevices, host-guest interactions, endohedral fullerenes, magnetic resonance imaging, nanodiamond particles and graphene. The book covers experimental and theoretical aspects of nanocarbons, as well as their uses and potential applications, ranging from molecular electronics to biology and medicine.

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