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Polymer Spectroscopy



Macromolecular Symposia 141 Polymer Spectroscopy

Victor M. Litvinov, Prajna P. De



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Raman Spectroscopy for Soft Matter Applications Maher Amer, 2009-04-01 Raman spectroscopy provides a critical characterization tool in analytical chemistry This book presents the fundamentals of raman spectroscopy outside the focus of physics to offer an accessible guide to scientists working in the broad area of soft materials The book is organized into four sections with the first devoted to an introduction to Raman spectroscopy which includes scattering theory and instrumentation The following sections are devoted to application areas including polymers and colloids food science drug delivery defense and medical *Infrared and Raman Spectroscopy of Polymers* J. L. Koenig, 2001 Vibrational spectroscopy is advantageous as an analytical tool for polymers and comprises two complementary techniques infrared IR and Raman spectroscopy This report is an absorbing overview of how these methods can be employed to provide information about complex polymeric macromolecules with respect to composition structure conformation and intermolecular interactions The review is supported by several hundred abstracts selected from the Polymer Library giving useful references for further reading

Microbial Biotechnology Pankaj Chowdhary, Sujata Mani, Preeti Chaturvedi, 2022-09-27 A holistic approach covering a wide range of environmental microbial applications along with current and future trends In *Microbial Biotechnology Role in Ecological Sustainability and Research* a team of distinguished researchers delivers an authoritative overview of the role of microbial biotechnology in the pursuit of environmental and ecological sustainability The book provides readers with compelling presentations of microbial technology including its applications in the removal of environmental pollutants and sustainable agriculture using microbial biocontrol agents or bio fertilizers Readers will also be able to explore the microbial reduction of greenhouse gases and a wide range of other cutting edge applications including the removal of various toxic environmental contaminants such as antibiotics pesticides dyes and heavy metals Microbial Biotechnology provides A thorough introduction to microorganisms their metabolic engineering the human microbiome and other foundational topics An in depth exploration of environmental management including bioremediation through a nexus approach A fulsome treatment of current trends in microbial biotechnology and its role in sustainable production Perfect for professionals in applied microbiology biotechnology environmental engineering green chemistry and soil science Microbial Biotechnology Role in Ecological Sustainability and Research will also earn a place in the libraries of research scholars scientists and academicians with an interest in environmental microbiology and ecology

Nuclear Magnetic Resonance G A Webb, 2009-10-16 As a spectroscopic method nuclear magnetic resonance NMR has seen spectacular growth over the past two decades both as a technique and in its applications Today the applications of NMR span a wide range of scientific disciplines from physics to biology to medicine Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive coverage of the literature on this topic This Specialist Periodical Report reflects the growing volume of published work involving NMR techniques and applications in particular

NMR of natural macromolecules which is covered in two reports NMR of Proteins and Nucleic Acids and NMR of Carbohydrates Lipids and Membranes For those wanting to become rapidly acquainted with specific areas of NMR this title provides unrivalled scope of coverage Seasoned practitioners of NMR will find this an invaluable source of current methods and applications Applications and Experiences of Quality Control Ognyan Ivanov,2011-04-26 The rich palette of topics set out in this book provides a sufficiently broad overview of the developments in the field of quality control By providing detailed information on various aspects of quality control this book can serve as a basis for starting interdisciplinary cooperation which has increasingly become an integral part of scientific and applied research *Polymer Spectroscopy* Vasilis G. Gregoriou,2004-06-10 This issue of Macromolecular Symposia contains the papers presented at the 15th European Symposium on Polymer Spectroscopy ESOPS 15 held in Hersonissos Greece in June 2003 Recent advances in the applications of a variety of spectroscopic techniques such as Infrared Raman Fluorescence NMR Mass spectroscopy Electrical and mechanical spectroscopy The characterization and analysis of polymers systems In particular applications of the above techniques to the analysis of polymeric nanocomposites all polymer solar cells biopolymers and food packaging polymers as well as theoretical and fundamental aspects in polymer spectroscopy are the topics covered in this volume **Spectroscopy of Rubbers and Rubbery Materials** Victor M. Litvinov,Prajna P. De,2002 This book deals with the application of spectroscopic techniques for characterisation of chemical and physical structures in viscoelastic materials such as unvulcanised elastomers and their vulcanisates various rubbery materials and some plastics which when blended with particular additives plasticisers behave like rubbers Analysis of the rubbery materials is complicated by the fact that rubbery products such as tyres tubes seals V belts and hoses contain in the rubbery matrix a significant amount of various compounds i e fillers vulcanising agents antioxidants and plasticisers Due to the complex composition no single technique can provide a good understanding of the effect of chemical and physical structures on the functional properties of rubbery materials Thus spectroscopy has become a powerful tool for the determination of polymer structures The most comprehensive information on chemical and physical structures in relation to material properties can be obtained by using a combination of macroscopic techniques and methods that provide information on the molecular level frequently used for analysis of rubbery materials i e various methods of nuclear magnetic resonance NMR and optical spectroscopy The main objective of this present book is to discuss a wide range of applications of the spectroscopic techniques for the analysis of rubbery materials The book brings together the various spectroscopic techniques for obtaining the following information chemical structure of rubbery materials network structure analysis heterogeneity of rubbery materials physical properties of rubbery materials functional properties and stability of rubbery materials processing of rubbery materials and quality control The contents of this book are of interest to chemists physicists material scientists and technologists who seek a better understanding of rubbery materials *Interface / Interphase in Polymer Nanocomposites* Anil N. Netravali,K. L. Mittal,2016-11-29 Significant

research has been done in polymeric nanocomposites and progress has been made in understanding nanofiller polymer interface and interphase and their relation to nanocomposite properties. However, the information is scattered in many different publication media. This is the first book that consolidates the current knowledge on understanding characterization and tailoring interfacial interactions between nanofillers and polymers by bringing together leading researchers and experts in this field to present their cutting edge research. Eleven chapters authored by senior subject specialists cover topics including Thermodynamic mechanisms governing nanofiller dispersion engineering of interphase with nanofillers, Role of interphase in governing the mechanical, electrical, thermal and other functional properties of nanocomposites, characterization and modelling of the interphase, Effects of crystallization on the interface, chemical and physical techniques for surface modification of nanocellulose reinforcements, Electro micromechanical and nanoindentation techniques for interface evaluation, molecular dynamics MD simulations to quantify filler matrix adhesion and nanocomposite mechanical properties.

Polymers in a Marine Environment Mukesh Doble, 2014-11-19. Polymers, plastics and composite materials are widely used in the shipping industry and so get exposed to marine waters. Biofouling of these leads to problems for ships and boats in the form of reduced speed and corrosion which these industries would like to prevent. Several hundred thousand tons of plastics that are discarded reach the marine environment every year either from land run off or because of maritime activities. It has been estimated that because plastics do not degrade easily one million marine animals are killed every year either by choking on floating plastic items or by becoming entangled in plastic debris. For the shipping industry the polymer should not foul and should be stable for extended periods of time in the marine environment. For the environmentalist the waste dumped after its use should degrade fast without causing problems to flora and fauna as well to the coastal economies. Addressing one of these issues leads to enhancement of the other issue and so this is not an easy problem to solve. This book covers the interaction of polymers with the marine environment, the problems they cause to ecology, their biofouling and biodegradation and possible solutions.

Silicon-Based Polymers and Materials Jerzy J. Chruściel, 2022-03-07. Silicon based materials and polymers are made of silicon containing polymers, mainly macromolecular siloxanes, silicones. This book covers the different kinds of silicon based polymers: silicones, silsesquioxanes, POSS and silicon based copolymers. Other silicon containing polymers: polycarbosilanes, polysilazanes, siloxane organic copolymers, silicon derived high tech ceramics, silicon carbide and oxycarbide, silicon nitride etc. have also a very important practical meaning and a huge number of practical applications. These materials make up products in a variety of industries and products including technical and medical applications. Polycrystalline silicon is the basic material for large scale photovoltaic (PV) applications as solar cells. Technical applications of crystalline c-Si and amorphous a-Si silicon, fully inorganic materials, silicon nanowires are still quickly growing especially in the field of microelectronics, optoelectronics, photonics and photovoltaics, catalysts and different electronic devices e.g. sensors, thermoelectric devices. This book is ideal for researchers and as such covers the industrial perspective of

using each class of silicon based materials Discusses silanes silane coupling agents SCA silica silicates silane modified fillers silsesquioxanes silicones and other silicon polymers and copolymers for practical applications as polymeric materials and very useful ingredients in materials science *Smart Textiles for Medicine and Healthcare* Lieva Van

Langenhove,2007-02-21 Smart or intelligent textiles are a relatively novel area of research within the textile industry with enormous potential within the healthcare industry This book provides a unique insight into recent developments in how smart textiles are being used in the medical field The first part of the book assesses trends in smart medical textiles Chapters cover topics such as wound care materials drug based release systems and electronic sensors for health care The second part of the book discusses the role of smart textile in monitoring the health of particular groups such as pregnant women children the elderly and those with particular physical disabilities With its distinguished editor and team of international contributors this book provides a unique and essential reference to those concerned with intelligent textiles in healthcare Unlocks the significant potential of smart textiles within the healthcare industry Provides a unique insight into recent developments in this exciting field Optical Fiber Sensor Technology L.S. Grattan,B.T. Meggitt,2013-03-09 Systems and Applications in

Optical Fiber Sensor Technology The essential technology which underpins developments in optical fiber sensors continues to expand and continues to be driven to a very large extent by advances in optoelectronics which have been produced for the ever expanding optical communications systems and networks of the world The steps forward in the technology often accompanied by a reduction in the price of associated components have been and continue to be adapted for use in a wide variety of optical fiber sensor systems These include for example the use of photoinduced gratings as fiber sensor components coupled with the wider availability of shorter wavelength lasers bright luminescent sources and high sensitivity detectors which have opened up new possibilities for both novel fiber optic sensor applications and new sensing systems This is to be welcomed at a time when coupled with integrated optic miniaturized devices and detectors real possibilities of systems integration at lower cost and increased utility can be offered The fiber laser and the expansions of the types and availability of the doped fiber on which it is based offer further examples of the integration of the essential components of advanced optical sensor systems fitted for a new range of applications **Subsurface and Surface Sensing Technologies and Applications III** Cam Nguyen,2001

Multi Frequency EPR Spectroscopy of Conjugated Polymers and Their Nanocomposites Victor I. Krinichnyi,2016-10-14 Conjugated polymeric materials and their nanocomposites are widely used for the creation of alternative sources of renewable energy cell phone screens mobile gadgets video players and OLED TV as well as organic diodes transistors sensors etc with field dependent and spin assisted electronic properties Multifrequency EPR Spectroscopy methods can help researchers optimize their structural magnetic and electronic properties for the creation of more efficient molecular devices This book will acquaint the reader with the basic properties of conjugated polymers the fundamentals of EPR Spectroscopy and the information that can be obtained at different wavebands of EPR spectroscopy

Conducting Polymers for Advanced Energy Applications Ram K. Gupta, 2021-12-22 This book details the use of conducting polymers and their composites in supercapacitors batteries photovoltaics and fuel cells nearly covering the entire spectrum of energy area under one title Conducting Polymers for Advanced Energy Applications covers a range of advanced materials based on conducting polymers the fundamentals and the chemistry behind these materials for energy applications FEATURES Covers materials chemistry various synthesis approaches and the properties of conducting polymers and their composites Discusses commercialization and markets and elaborates on advanced applications Presents an overview and the advantages of using conducting polymers and their composites for advanced energy applications Describes a variety of nanocomposites including metal oxides chalcogenides graphene and materials beyond graphene Offers the fundamentals of electrochemical behavior This book provides a new direction for scientists researchers and students in materials science and polymer chemistry who seek to better understand the chemistry behind conducting polymers and improve their performance for use in advanced energy applications

Caratterizzazione di materiali polimerici. Tecniche per polimeri in soluzione Mauro Aglietto, Roberta Bongiovanni, Alberto Mariani, 2014-05-15 Il presente volume su Caratterizzazione di materiali polimerici Tecniche per polimeri in soluzione segue il testo sulla Sintesi di materiali polimerici pubblicato nel 2012 e sar completato da un testo sulle tecniche di caratterizzazione per lo stato solido previsto per il 2016 Il primo capitolo del testo generale e presenta una panoramica delle strutture polimeriche pensato come introduzione per i lettori che si avvicinano alle scienze macromolecolari e come aggiornamento per chi ha gi una formazione nel campo Infatti oltre a riprendere i concetti di base ne introduce di nuovi come i reticoli interpenetranti e di nuovissimi come i copolimeri a gradiente Il secondo capitolo si occupa del comportamento dei polimeri in soluzione da un punto di vista termodinamico fornendo le basi per molte delle tecniche sperimentali che verranno illustrate nei capitoli successivi ad esempio i metodi di diffusione della luce Dopo una sezione dedicata alla reologia delle soluzioni polimeriche il libro le affronta attraverso la dinamica molecolare con la descrizione dei sistemi polimero solvente tramite modellazione matematica I capitoli seguenti sono dedicati ciascuno ad una tecnica di caratterizzazione si va dai metodi chimico fisici di determinazione del peso molecolare delle macromolecole alle spettroscopie UV visibile infrarossa Raman EPR di diffusione di neutroni di risonanza magnetica nucleare NMR e di massa Il volume si propone quindi come utile manuale per lo studente per il tecnico e per il ricercatore che vogliono rivedere le conoscenze sulle diverse tecniche di indagine delle soluzioni polimeriche o e vogliono approfondire i loro studi attraverso l'uso di metodi nuovi

Subsurface Sensing Technologies and Applications II Cam Nguyen, 2000

Annual Reports on NMR Spectroscopy Graham A. Webb, 2009-03-31 Nuclear magnetic resonance NMR is an analytical tool used by chemists and physicists to study the structure and dynamics of molecules In recent years no other technique has gained such significance as NMR spectroscopy It is used in all branches of science where precise structural determination is required and where the nature of interactions and reactions in solution is being studied Annual

Reports on NMR Spectroscopy has established itself as a premier means for the specialist and non specialist alike to become familiar with new techniques and applications of NMR spectroscopy Provides updates on the latest developments in NMR spectroscopy Includes comprehensive review articles Highlights the increasing importance of NMR spectroscopy as a technique for structural determination Bio-Based Plastics Stephan Kabasci, 2013-10-02 The field of bio based plastics has developed significantly in the last 10 years and there is increasing pressure on industries to shift existing materials production from petrochemicals to renewables Bio based Plastics presents an up to date overview of the basic and applied aspects of bioplastics focusing primarily on thermoplastic polymers for material use Emphasizing materials currently in use or with significant potential for future applications this book looks at the most important biopolymer classes such as polysaccharides lignin proteins and polyhydroxyalkanoates as raw materials for bio based plastics as well as materials derived from bio based monomers like lipids poly lactic acid polyesters polyamides and polyolefines Detailed consideration is also given to the market and availability of renewable raw materials the importance of bio based content and the aspect of biodegradability Topics covered include Starch Cellulose and cellulose acetate Materials based on chitin and chitosan Lignin matrix composites from natural resources Polyhydroxyalkanoates Poly lactic acid Polyesters Polyamides and Polyolefins from biomass derived monomers Protein based plastics Bio based Plastics is a valuable resource for academic and industrial researchers who are interested in new materials renewable resources sustainability and polymerization technology It will also prove useful for advanced students interested in the development of bio based products and materials green and sustainable chemistry polymer chemistry and materials science For more information on the Wiley Series in Renewable Resources visit www.wiley.com/go/rrs *The Journal of Materials Education* ,1983

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