

Science And Technology Of Polymer Nanofibers

Polymer Science and Technology Radiation Curing in Polymer Science and Technology Polymer Surfaces Encyclopedia of Polymer Science and Technology: Fire retardancy to Istopic labeling Experimental Methods in Polymer Science Polymer–Aufbereitung und Kunststoff–Compoundierung Introduction to Polymer Science and Technology Polymers in Medical Applications Failure of Polymer Products Due to Photo–oxidation Failure of Polymer Products Due to Thermo–oxidation Polymer Blends Polymer Science and Technology Structural Studies of Polymers by Solution Nmr Particulate Fillers for Polymers Solid–State Nmr of Polymers Outlines of Polymer Technology Introduction to Polymer Science and Technology Liquid Crystal Polymers Natural and Wood Fibre Reinforcement in Polymers Polymer Science and Technology Robert O. Ebewele Jean–Pierre Fouassier Fabio Garbassi Toyochi Tanaka Klemens Kohlgrüber B.J. Lambert D. C. Wright L.A. Utracki Premamoy Ghosh H.N. Cheng R. N. Rothon P. Mirau R. Sinha Herman S. Kaufman D. Coates A. K. Bledzki Premamoy Ghosh

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by consolidating into one volume the fundamentals currently covered piecemeal across several reference this book simplifies the learning of polymer science its primary focus is the ultimate property of the finished polymer product part i explains polymer fundamentals

part ii discusses how polymers are prepared from monomers and the transformation of polymers into useful everyday articles part iii examines the properties and applications of polymers polymer science and technology presents these aspects of the science in a readily understandable way it emphasizes basic qualitative comprehension of concepts rather than their rote memorization or detailed mathematical analysis

volume three deals specifically with the role of monomers and resins in radiation curing the nature of the backbone of oligomers leads to the ultimate physical or chemical properties of the uv cured material this chapter also covers aspects of the chemistry of these compounds in relation to their end uses

polymer surfaces from physics to technology is divided into four main sections firstly the origins and physical principles governing the properties of polymer surfaces are considered next the authors discuss methods of characterization particularly spectroscopic and those connected to surface energetics

successful characterization of polymer systems is one of the most important objectives of today s experimental research of polymers considering the tremendous scientific technological and economic importance of polymeric materials not only for today s applications but for the industry of the 21st century it is impossible to overestimate the usefulness of experimental techniques in this field since the chemical pharmaceutical medical and agricultural industries as well as many others depend on this progress to an enormous degree it is critical to be as efficient precise and cost effective in our empirical understanding of the performance of polymer systems as possible this presupposes our proficiency with and understanding of the most widely used experimental methods and techniques this book is designed to fulfill the requirements of scientists and engineers who wish to be able to carry out experimental research in polymers using modern methods each chapter describes the principle of the respective method as well as the detailed procedures of experiments with examples of actual applications thus readers will be able to apply the concepts as described in the book to their own experiments addresses the most important practical techniques for experimental research in the growing field of polymer science the first well documented presentation of the experimental methods in one consolidated source covers principles practical techniques and actual examples can be used as a handbook or lab manual for both students and researchers presents ideas and methods from an international perspective techniques addressed in this volume include light scattering neutron scattering and x ray scattering fluorescence spectroscopy

nmr on polymers rheology gel experiments

die kunststoffherstellung umfasst die wesentlichen verfahrensschritte synthese reaktion aufbereitung compoundierung beim rohstoffhersteller und compoundeur und die verarbeitung formgebung zu halbzeugen oder fertiger produkt in diesem handbuch wird der zentrale mittlere schritt die aufbereitung und compoundierung besprochen die aufgaben der aufbereitung umfassen die entfernung von bestandteilen die einarbeitung von zusatzstoffen und die Änderung der teilchengröße unter compoundierung wird die einarbeitung von zusatzstoffen in ein polymer bzw einen kunststoff verstanden es werden die verfahrenstechnischen grundlagen und konkret eingesetzte apparate und maschinen beschrieben die fachautoren vermitteln ihr wissen aus den bereichen forschung polymerherstellung und apparate maschinenherstellung mit den anwendungen in der kunststofftechnik

the use of polymers in medical devices is growing at a steady rate these materials are generally relatively cheap and versatile qualities required in many bulk applications in more specialised medical devices polymeric components have been developed to meet challenging property and performance requirements this review describes the process of developing polymeric products for medical applications from design requirements through to specific examples of medical devices and packaging an additional indexed section containing several hundred abstracts from the rapra polymer library database gives useful references for further reading

the combined effects of oxidising media and heat result in degradation by thermo oxidation the principles and cases described in this review emphasise long term degradation in service two additional phenomena that influence thermo oxidation are also described catalysis by certain metal ions and the influence of stress an additional indexed section containing several hundred abstracts from the polymer library gives useful references for further reading

this report begins by summarising the basis of polymer blending this includes an outline of the techniques being used to characterise blends including spectroscopic techniques and rheometry the types of polymer blends which have been studied are outlined methods of compatibilisation are discussed the morphology of the phases in a blend is critical to property development the types of morphology observed are described flow induced morphology is described processing of blends and the effects on morphology are

discussed including extrusion thermoforming blow moulding injection moulding and foaming the accompanying abstracts from the rapra polymer library database provide useful further information and indicate sources of additional material

this book skillfully blends and integrates polymer science plastic technology and rubber technology the fundamentals of polymerization polymer characteristics rheology and morphology as well as the composition technology testing and evaluation of various plastics rubbers fibres adhesives coatings and composites are comprehensively presented new to this edition extensive discussion of dendritic polymers dendrimers and useful inorganic polymers lucid description of the use of power polymers in developing solar photovoltaic devices in depth coverage of the applications of nanotechnology to polymers detailed explanation of the use of polymers in waste disposal and recycling the book is highly suitable for all entrepreneurs and professionals engaged in production of as well as research and development in polymers it will also be found immensely useful by advanced level students of physics chemistry materials science and electronics specializing in polymers as well as students of electronics chemical and metallurgical engineering having courses in polymer technology materials science and technology

solution state nmr spectroscopy is generally regarded as the premier technique to characterise polymer structure this report provides a timely review of the developments in the nmr of polymers in solution in the past few years an additional indexed section containing several hundred abstracts from the polymer library gives useful references for further reading

this is an overview of particulate filler production and use each filler type has different properties and these in turn are influenced by the particle size shape and surface chemistry filler characteristics are discussed from costs to particle morphology practical aspects of filler grading are described and the principal filler types are outlined filler surface modification is an important topic the main types of modifying agent and their uses are described from fatty acids to functionalised polymers an additional indexed section containing several hundred abstracts from the rapra polymer library database gives useful references for further reading

nmr spectroscopy has emerged as one of the most important methods for the solid state characterisation of polymers this report gives an overview of the methods and applications of nmr to relevant polymer problems with an emphasis on how nmr can be used for

materials characterisation and to understand structure property relationships in polymers an additional indexed section containing several hundred abstracts from the rapra polymer library database gives useful references for further reading

liquid crystal polymers lcps have a wide range of uses from strong engineering plastics to delicate gels for use in liquid crystal lc displays for this reason it is essential reading for materials scientists engineers or technologists in industry as well as research laboratories or academia an additional indexed section containing several hundred abstracts from the rapra polymer library database gives useful references for further reading

this report examines the different fibre types available and the current research the authors have cited several hundred references to the latest work on properties processing and applications the different methods of fibre pretreatment are examined together with fibre properties chemistry and applications this review is accompanied by summaries of papers from the rapra polymer library database

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Introduction

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