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Avraam I. Isayev



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Essentials of Polymer Science and Engineering Paul C. Painter, Michael M. Coleman, 2009 Written by two of the best known scientists in the field Paul C Painter and Michael M Coleman this unique text helps students as well as professionals in industry understand the science and appreciate the history of polymers Composed in a witty and accessible style the book presents a comprehensive account of polymer chemistry and related engineering concepts highly illustrated with worked problems and hundreds of clearly explained formulas In contrast to other books *Essentials* adds historical information about polymer science and scientists and shows how laboratory discoveries led to the development of modern plastics DEStech Publications web site

Polymer Science and Engineering Paul C. Painter, Michael M. Coleman, 2004 *Fundamentals of Polymer Science* Michael M. Coleman, Paul C. Painter, 2019-01-25 Now in its second edition this widely used text provides a unique presentation of today's polymer science It is both comprehensive and readable The authors are leading educators in this field with extensive background in industrial and academic polymer research The text starts with a description of the types of microstructures found in polymer

Who's Who in Plastics Polymers, First Edition James P. Harrington, 2000-05-09 This is the first edition of a unique new plastics industry resource Who's Who in Plastics Polymers It is the only biographical directory of its kind and includes contact affiliation and background information on more than 3300 individuals who are active leaders in this industry and related organizations The biographical directory is in alphabetical order by individual name After each individual name current affiliation and contact information is provided This includes job title full name of affiliation e.g. business university association research institute business address and electronic contacts telephone fax e-mail and Web site Home addresses and contacts are also provided for most of the entries In the biographical summary section for each individual the following information is provided date and place of birth education and educational achievements work experience including company or other organization names positions held and time periods Also included in this section are the number of patents awarded articles and book chapters authored and conference sessions chaired Other information includes titles of books edited or written by the individual listing of conferences where the person had a leadership position and listing of memberships and positions held in professional organizations Finally professional and civic awards are listed Indexes provide listings of individuals by company or other organization name and also by geographical location Who's Who in Plastics Polymers is now published in a limited edition of 1 000 copies This edition will not be reprinted To be sure of receiving your copy please act now Information on ordering follows sample pages on the reverse

Thermodynamics of Polymer Blends, Volume I Anatoly E. Nesterov, Yuri S. Lipatov, 2020-02-03 Thermodynamics is an indispensable tool for developing a large and growing fraction of new polymers and polymer blends These two volumes show the researcher how thermodynamics can be used to rank polymer pairs in order of immiscibility including the search for suitable chemical structure of compatibilizers Because of the great current commercial interest in this most dynamic sector

of the polymer industry there is high interest in studying their physical and mechanical properties their structures and the processes of their formation and manufacture These Books are dedicated to Analysis of the Thermodynamics of Polymer Blends Thermodynamic behavior of blends determines the compatibility of the components their morphological features rheological behavior and microphase structures As a result the most important physical and mechanical characteristics of blends can be identified The information in these two volumes will be useful to all those involved in polymer research development analysis and advanced process engineering

Physical Properties of Polymers A.A. Askadski,1996-12-03 This volume presents a problem in determining the physical properties of polymers and thus makes it difficult to tackle the question of the synthesis of polymers with desired properties

Polymer Analysis Barbara H. Stuart,2002-03-12 This book introduces the techniques used for the analysis of polymers It covers the main aspects of polymer science and technology identification polymerization molecular weight structure surface properties degradation and mechanical properties Clear explanations of each analytical technique Describes the application of techniques to the study of polymers Encourages learning through numerous self assessment questions and answers Structured for flexible learning

Micro and Nano Fibrillar Composites (MFCs and NFCs) from Polymer Blends Raghvendra Kumar Mishra,Sabu Thomas,Nandakumar Kalarikkal,2017-06-19 Micro and Nano Fibrillar Composites MFCs and NFCs from Polymer Blends is a comprehensive reference for researchers students and scientists working in the field of plastics recycling and composites The book aims to determine the influence of micro and nanofibrillar morphology on the properties of immiscible blend systems Chapters cover micro and nanofibrillar composites based on polyolefin liquid crystal polymer biodegradable polymers polyester and polyamide blends in various industrial application fields The book brings together panels of highly accomplished experts in the field of plastics recycling blends and composites systems For several decades plastic technology has played an important role in many industrial applications such as packaging automobiles aerospace and construction However the increasing use of plastics creates a lot of waste This has led to restrictions on the use of some plastics for certain applications and a drive towards recycling of plastics More recently microfibrillar in situ composites have been prepared from waste plastics such as PET PP PET PE and Nylon PP as a way of formulating new high performance polymer systems This book tackles these issues and more and is an ideal resource for anyone interested in polymer blends Provides information on MFC and NFC based polymer blends that have been accumulated over the last 25 years providing a useful reference Adopts a novel approach in terms of understanding the relationship between processing morphology structure properties and applications in micro and nanofibrillar composites Contains contributions from leading experts in the field from both industrial and academic research

Encyclopedia of Polymer Blends, Volume 1 Avraam I. Isayev,2016-09-12 A complete and timely overview of the topic this volume of the encyclopedia imparts knowledge of fundamental principles of polymer blends Each article is uniformly structured for easy navigation containing the latest research development and its basic principles and applications

Hydrogen-bonded Interpolymer Complexes Vitaliy V. Khutoryanskiy, Georgios Staikos, 2009 Noncovalent interactions play key roles in many natural processes leading to the self assembly of molecules with the formation of supramolecular structures One of the most important forces responsible for self assembly is hydrogen bonding which also plays an important role in the self assembly of synthetic polymers in aqueous solutions Proton accepting polymers can associate with proton donating polymers via hydrogen bonding in aqueous solutions and form polymerndash polymer or interpolymer complexes There has been an increased interest among researchers in hydrogen bonded interpolymer complexes since the first pioneering papers were published in the early 1960s Several hundred research papers have been published on various aspects of complex formation reactions in solutions and interfaces properties of interpolymer complexes and their potential applications This book focuses on the latest developments in the area of interpolymer complexation via hydrogen bonding It represents a collection of original and review articles written by recognized experts from Germany Greece Kazakhstan Poland Romania Russia UK Ukraine and the USA It highlights many important applications of interpolymer complexes including the stabilization of colloidal systems pharmaceuticals and nanomaterials

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