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at Surfaces and Interfaces



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Conjugated Polymer Surfaces and Interfaces W. R. Salaneck, S. Stafstrom, J. L. Brédas, 2003-10-30 Describes the basic physics and materials science of conjugated polymers and their interfaces.

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and Interfaces W. J. Feast, 1987-04-28 A collection of review papers which give an up to date interdisciplinary view of current technology and research on polymer surfaces Contributors are drawn from both academia and industry and represent a cross section of subject interests **Polymer Surfaces and Interfaces: Characterization, Modification and Application**

Kash L. Mittal, 2023-01-06 Polymeric materials are used for a legion of applications in a wide array of technological areas and their proper surface interface characteristics are of cardinal importance for their applications Therefore the need to characterize polymer surfaces interfaces and their suitable modification to impart desired characteristics is quite patent This book chronicles the proceedings of the Symposium on Polymer Surfaces and Interfaces Characterization Modification and Application held as a part of the Society of Plastics Engineers Annual Technical Conference Boston May 7 11 1995 The articles in this book address many aspects of polymer surfaces and interfaces Topics covered include various ways chemical photochemical laser flame corona to modify polymer surfaces modification of contact lens surfaces various ways to analyze characterize polymer surfaces metal polymer interfaces metal polyimide adhesion metal self assembled organic monolayer interfaces polymer alignment layers for liquid crystals alignment of liquid crystal surfaces polyimide alignment layers molecular re orientation of polymer surfaces plasma polymerized organic coatings epoxy fiber interphase epoxy underfill materials for packaging integrated circuits transport in polymers polymer miscibility and cell adhesion **Polymer**

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Xin Chen, Japan Trivedi, Zheyu Liu, 2025-05-19 This reprint is derived from the Special Issue New Studies of Polymer Surfaces and Interfaces of Polymers and contains a total of 10 papers These papers focus on the application of polymers in the field of enhanced oil recovery EOR mainly revealing EOR mechanisms of different types of polymer applications and physical and chemical reactions of the surface interface The papers in this reprint are contributed by academics from different countries and universities and they present recent research hotspots and progress related to this topic This reprint can provide readers with knowledge on good theoretical and experimental methods **Polymer Surfaces and Interfaces III** R. W. Richards, S.

K. Peace, 1999-06-18 A collection of papers by some of the foremost authorities in polymer science this volume explores the state of the art of surface science techniques and related applications It presents a variety of topics illustrating surface and interfacial aspects of polymer science and provides the theoretical and technical background necessary to predict the behavior of materials Covers nearly all surface analysis techniques available today Expands on material presented by leading experts at the third Polymer Surfaces and Interfaces conference in Durham in 1997 **Polymers at Surfaces and**

Interfaces , **Polymer Surfaces and Interfaces Series** , 19?? **Polymer Surfaces** Fabio Garbassi, M. Morra, Ernesto Occhiello, 1994-02-15 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 Surface Modification of Polymers Jean Pinson, Damien Thiry, 2020-02-18 A guide to modifying and functionalizing the surfaces of polymers Surface Modification of Polymers is an essential guide to the myriad methods that can be employed to modify and functionalize the surfaces of polymers The functionalization of polymer surfaces is often required for applications in sensors membranes medicinal devices and others The contributors noted experts on the topic describe the polymer surface in detail and discuss the internal and external factors that influence surface properties This comprehensive guide to the most important methods for the introduction of new functionalities is an authoritative resource for everyone working in the field This book explores many applications including the plasma polymerization technique organic surface functionalization by initiated chemical vapor deposition photoinduced functionalization on polymer surfaces functionalization of polymers by hydrolysis aminolysis reduction oxidation surface modification of nanoparticles and many more Inside readers will find information on various applications in the biomedical field food science and membrane science This important book Offers a range of polymer functionalization methods for biomedical applications water filtration membranes and food science Contains discussions of the key surface modification methods including plasma and chemical techniques as well as applications for nanotechnology environmental filtration food science and biomedicine Includes contributions from a team of international renowned experts Written for polymer chemists materials scientists plasma physicists analytical chemists surface physicists and surface chemists Surface Modification of Polymers offers a comprehensive and application oriented review of the important functionalization methods with a special focus on biomedical applications membrane science and food science

Molecular-level Structures of Polymer Surfaces and Interfaces Studied by Sum Frequency Generation Vibrational Spectroscopy Chunyan Chen, 2005 **Polymer Libraries** Michael A. R. Meier, Dean C. Webster, 2010-05-21 This is truly an exciting time to be in the field of polymer science Advances in polymerization methods are providing polymer scientists with the ability to specify and control polymer composition structure architecture and molecular weight to a degree that was not possible just a decade ago This in turn is resulting in many novel application possibilities of polymers ranging from drug delivery systems and nanolithography to stimuli responsive materials and many others In addition many of the application areas of polymers such as coatings adhesives thermoplastics composites and personal care are also taking advantage of the ability to design polymers during their development efforts Not to forget many of these applications of polymers involve mixing polymers with solvents catalysts colorants and many other ingredients to prepare a formulated product However the tuning of polymer composition and structure as well as polymer formulations to optimize the final performance properties can be challenging especially since in many cases several interacting variables need to be optimized simultaneously This is where the methodologies and techniques of combinatorial and high throughput experimentation to synthesize and characterize polymer

libraries can be an invaluable approach. Simply put, a polymer library is a collection of multiple polymer samples having a systematic variation in one or more variables related to composition, structure, or process. Various methods and strategies have been explored to efficiently prepare a large number of polymer samples and also to screen these samples for key properties of interest.

Polymer Thermodynamics Sabine Enders, Bernhard A. Wolf, 2011-01-13 Making Flory-Huggins Practical Thermodynamics of Polymer-Containing Mixtures by B. A. Wolf Aqueous Solutions of Polyelectrolytes Vapor-Liquid Equilibrium and Some Related Properties by G. Maurer, S. Lammertz, and L. Ninni Scherer Gas-Polymer Interactions Key Thermodynamic Data and Thermophysical Properties by J. P. E. Grolier and S. A. E. Boyer Interfacial Tension in Binary Polymer Blends and the Effects of Copolymers as Emulsifying Agents by S. H. Anastasiadis Theory of Random Copolymer Fractionation in Columns by Sabine Enders Computer Simulations and Coarse-Grained Molecular Models Predicting the Equation of State of Polymer Solutions by K. Binder, B. Mognetti, W. Paul, P. Virnau, and L. Yelash Modeling of Polymer Phase Equilibria Using Equations of State by G. Sadowski

Polymer Surface Characterization Luigia Sabbatini, Elvira De Giglio, 2022-01-19 This fully updated edition provides a broad approach to the surface analysis of polymers being of high technological interest. Modern analytical techniques, potential applications, and recent advances in instrumental apparatus are discussed. The self-consistent chapters are devoted to spectroscopic and microscopic techniques which represent powerful tools for the characterization of morphology and chemical-physical-mechanical properties of polymer surfaces, interfaces, and thin films. Selection of techniques which can properly address very shallow depth of surfaces, spanning from few angstroms to tens of nanometers. Interaction of polymer surfaces with their surroundings is pointed out as a critical issue for specific applications.

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