

Surface analysis of polymers by XPS and static SIMS

D. Briggs

Cambridge Solid State Science Series

Surface Analysis Of Polymers By Xps And Static Sims

Annelies Wilder-Smith

Surface Analysis Of Polymers By Xps And Static Sims:

Surface Analysis of Polymers by XPS and Static SIMS D. Briggs, 1998-04-02 This book provides an in depth treatment of the instrumentation physical bases and applications of X ray photoelectron spectroscopy XPS and static secondary ion mass spectroscopy SSIMS with a specific focus on the subject of polymeric materials XPS and SSIMS are widely accepted as the two most powerful techniques for polymer surface chemical analysis particularly in the context of industrial research and problem solving In this book the techniques of XPS and SSIMS are described and in each case the author explains what type of information may be obtained The book also includes details of case studies emphasising the complementary and joint application of XPS and SSIMS in the investigation of polymer surface structure and its relationship to the properties of the material This book will be of value to academic and industrial researchers interested in polymer surfaces and surface analysis

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

Tissue Engineering Using Ceramics and Polymers Aldo R. Boccaccini, J. Gough, 2007-10-31 Technology and research in the field of tissue engineering has drastically increased within the last few years to the extent that almost every tissue and organ of the human body could potentially be regenerated With its distinguished editors and international team of contributors Tissue Engineering using Ceramics and Polymers reviews the latest research and advances in this thriving area and how they can be used to develop treatments for disease states Part one discusses general issues such as ceramic and polymeric biomaterials scaffolds transplantation of engineered cells surface modification and drug delivery Later chapters review characterisation using x ray photoelectron spectroscopy and secondary ion mass spectrometry as well as environmental scanning electron microscopy and Raman micro spectroscopy Chapters in part two analyse bone regeneration and specific types of tissue engineering and repair such as cardiac intervertebral disc skin kidney and bladder tissue The book concludes with the coverage of themes such as nerve bioengineering and the micromechanics of hydroxyapatite based biomaterials and tissue scaffolds Tissue Engineering using Ceramics and Polymers is an innovative reference for professionals and academics involved in the field of tissue engineering An innovative and up to date reference for professionals and academics Environmental scanning electron microscopy is discussed Analyses bone regeneration and specific types of tissue engineering

Biologically Modified Polymeric Biomaterial Surfaces E. Piskin, 2012-12-06 gap always exists between the material performance generation of new

molecules along with the release during in vivo animal tests and clinical situations of substances from a multitude of cells The plasma because of the difference in individual reactions proteins including coagulation and complement proteins the blood cells deposited on the material between one animal and another and humans Likewise sophisticated in vitro and in vivo models surface or circulating in the blood stream and their are being developed to study living body responses released substances take part in the dynamic process of fibrinolysis and thrombus formation Progress has been achieved in culturing mammalian cells particularly human cells which has lead to new in vitro models to study cell biomaterial Tissue response interactions These techniques are discussed in the other chapters of this volume Materials implanted in tissues always generate a response The major tissue response in the extra BIOLOGICAL MODIFICATION vascular system is an inflammatory process which may be induced chemically or physically Many Surfaces of polymeric biomaterials may be modified proteins and cells are involved in this very complex by using a variety of biological entities e g **Reference Book for Composites Technology** Stuart M. Lee,1989-05-13 The eleven contributions comprising the first volume address topics that include the history of composites epoxy resins fiber reinforced glasses and glass ceramics for high performance applications aramid fiber reinforcements specifically Vniivlon Polyamidobenzimidazole the USSR s aramid fiber

Techniques for Polymer Organisation and Morphology Characterisation R. A. Pethrick,C. Viney,2003-05-07 The volume describes analytical methods used in the analysis of macromolecular materials and elucidation of their structure The techniques described reflect some of the recent advances which have been made in the development of methods for characterisation and sizing of molecules in solution and solid phases The chapters are tutorial in nature and are extensively referenced and represent a significant source of information on the application of these techniques within the context of polymer science International contributors Reflects recent advances in the applications of analytical techniques for polymer characterisation **Quantitative Microbeam Analysis** A.G Fitzgerald,B.E Storey,D.J Fabian,2017-07-12 Quantitative Microbeam Analysis provides a comprehensive introduction to the field of quantitative microbeam analysis M QA M QA is a technique used to analyze subatomic quantities of materials blasted from a surface by a laser or particle beam providing information on the structure and composition of the material Contributed to by international experts the book is unique in the breadth of microbeam analytical techniques covered For each technique it develops the theoretical background discusses practical details relating to choice of equipment and describes the current advances The book highlights developments relating to Auger electron spectroscopy in scanning electron microscopes and transmission electron microscopes and advances in surface analytical imaging and accelerated ion beam surface interactions **Encyclopedia of Polymer Science and Technology: , v. 9. Acrylic fibers to ethylene oxide polymers** ,2004 **Plastics Additives** J.C.J. Bart,2006-03-15 Contains an outline of the principles and characteristics of relevant instrumental techniques provides an overview of various aspects of direct additive analysis by focusing on an array of applications in R ampD production quality control and technical

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performance emerging candidate materials as competitors and disruptive technologies research and development regulatory management commercial aspects and applications including medical applications Detailed coverage is given to both new and emerging areas and the latest research in more traditional areas of the field Particular attention is given to those areas in which major recent developments have taken place This new edition with 75% new or updated articles will provide biomedical scientists in industry government academia and research organizations with an accurate perspective on the field in a manner that is both accessible and thorough Reviews the current status of nearly all biomaterials in the field by analyzing their strengths and weaknesses performance and future prospects Covers all significant emerging technologies in areas such as 3D printing of tissues organs and scaffolds cell encapsulation multimodal delivery cancer vaccine biomaterial applications neural interface understanding materials used for in situ imaging and infection prevention and treatment Effectively describes the many modern aspects of biomaterials from basic science to clinical applications *Surface and Interfacial Aspects of Biomedical Polymers* J.D. Andrade, 1985-05-31 This book is intended to provide a fundamental basis for the study of the interaction of polymers with living systems biochemicals and with aqueous solutions The surface chemistry and physics of polymeric materials is a subject not normally covered to any significant extent in classical surface chemistry textbooks Many of the assumptions of classical surface chemistry are invalid when applied to polymer surfaces Surface properties of polymers are important in the development of medical devices and diagnostic products Surface properties are also of vital importance in fields such as adhesion paints and coatings polymer filler interactions heterogeneous catalysis composites and polymers for energy generation The book begins with a chapter considering the current sources of information on polymer surface chemistry and physics It moves on to consider the question of the dynamics of polymer surfaces and the implications of polymer surface dynamics on all subsequent characterization and interfacial studies Two chapters are directed toward the question of model polymers for preparing model surfaces and interfaces Complete treatments of X ray photoelectron spectroscopy and attenuated total reflection infrared spectroscopy are given There is a detailed treatment of the contact angle with particular emphasis on contact angle hysteresis in aqueous systems followed by chapters on interfacial electrochemistry and interface acid base charge transfer properties The very difficult problem of block and graft copolymer surfaces is also discussed The problem of theoretical calculations of surface and interfacial tensions is presented Raman spectroscopy is considered as an analytical technique for polymer surface characterization

Research & Development ,1992 Physics Briefs ,1993 Chemical Analysis Liang Li,1941

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