

Surface analysis of polymers by XPS and static SIMS

D. Briggs

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Surface Analysis Of Polymers By Xps And Static Sims

D. Muster, G. Hastings



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

Surface Analysis Methods in Materials Science D.J. O'Connor, Brett A. Sexton, Roger S.C. Smart, 2013-06-29 The success of the first edition of this broad appeal book prompted the preparation of an updated and expanded second edition The field of surface analysis is constantly changing as it answers the need to provide more specific and more detailed information about surface composition and structure in advanced materials science applications The content of the second edition meets that need by including new techniques and expanded applications Newcastle John O Connor Clayton Brett Sexton Adelaide Roger Smart January 2003 Preface to the First Edition The idea for this book stemmed from a remark by Philip Jennings of Murdoch University in a discussion session following a regular meeting of the Australian Surface Science group He observed that a text on surface analysis and applications to materials suitable for final year undergraduate and postgraduate science students was not currently available Furthermore the members of the Australian Surface Science group had the research experience and range of coverage of surface analytical techniques and applications to provide a text for this purpose A list of techniques and applications to be included was agreed at that meeting The intended readership of the book has been broadened since the early discussions particularly to encompass industrial users but there has been no significant alteration in content

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

Surface Analysis and Techniques in Biology Vincent S. Smentkowski, 2014-03-18 This book summarizes the main surface analysis techniques that are being used to study biological specimens systems The compilation of chapters

in this book highlight the benefits that surface analysis provides The outer layer of bulk solid or liquid samples is referred to as the surface of the sample material At the surface the composition microstructure phase chemical bonding electronic states and or texture is often different than that of the bulk material The outer surface is where many material interactions reactions take place This is especially true biomaterials which may be fabricated into bio devices and in turn implanted into tissues and organs Surfaces of biomaterials synthetic or modified natural materials are of critical importance since the surface is typically the only part of the biomaterial bio device that comes in contact with the biological system Analytical techniques are required to characterize the surface of biomaterials and quantify their impact in real world biological systems Surface analysis of biological materials started in the 1960 s and the number of researchers working in this area have increased very rapidly since then a number of advances have been made to standard surface analytical instrumentation and a number of new instruments have been introduced

Polymer Structure Characterization Richard A Pethrick, 2007-10-31 Low molar mass organic materials and polymers exhibit a range of physical properties that are dependent on their ability to undergo self organization The degree and extent of the molecular organization depends on a complex interplay of inter and intra molecular interactions Polymer Structure Characterization From Nano to Macro Organization discusses in a systematic fashion the way in which molecular interactions influence observed morphologies Topics include organic crystals liquid crystals plastic crystals polymer morphology polymer crystallization amorphous glassy material polymer surfaces polymer phase separation and structure a brief introduction to organization in naturally occurring materials This textbook is primarily aimed at polymer and material scientists but would also be of interest to chemists and physicists studying the properties of organic materials It provides complimentary material for a range of courses in materials science molecular chemistry and chemical physics

Data Driven Guide to the Analysis of X-ray Photoelectron Spectra using RxpsG Giorgio Speranza, 2023-11-23 Key Features Simplifies the use of RxpsG how it works and its applications Demonstrates RxpsG using a reproduction of the graphical interface of RxpsG showing the steps needed to perform a specific task and the effect on the XPS spectra Accessible to readers without any prior experience using the RxpsG software

Characterization and Analysis of Polymers Wiley, 2008-02-08 Based on Wiley s renowned Encyclopedia of Polymer Science and Technology this book provides coverage of key methods of characterization of the physical and chemical properties of polymers including atomic force microscopy chromatographic methods laser light scattering nuclear magnetic resonance and thermal analysis among others Written by prominent scholars from around the world this reference presents over twenty five self contained articles on the most used analytical techniques currently practiced in polymer science

Polymer Structure Characterization Richard Arthur Pethrick, 2014 The different physical properties displayed by low molar mass organic materials and polymers are a result of their molecular organisation In order to understand the structure property relationship of a material it is necessary to first look at the interactions at a molecular level This new edition of Polymer

Structure Characterization provides readers with the background needed to understand the factors that influence molecular organization and how this affects the morphology and bulk physical properties of a material. In order to introduce the concepts the book first looks at small molecular systems and builds up to complex macromolecular systems. The second edition has been fully revised and updated to include new examples and references. Topics covered include organic crystals, liquid crystals, plastic crystals, polymer crystal growth, amorphous glassy materials, polymer surfaces and interfaces, colloids and molecular organization in liquids as well as two new chapters on self assembly and biopolymer systems. The book is intended to provide complimentary material for a range of undergraduate and postgraduate courses in materials science, molecular chemistry and chemical physics. In addition to polymer and material scientists the book would also be of interest to chemists and physicists studying the properties of organic materials. **Surface Analysis** John C. Vickerman, Ian S.

Gilmore, 2011-08-10 This completely updated and revised second edition of **Surface Analysis: The Principal Techniques** deals with the characterisation and understanding of the outer layers of substrates, how they react, look and function, which are all of interest to surface scientists. Within this comprehensive text, experts in each analysis area introduce the theory and practice of the principal techniques that have shown themselves to be effective in both basic research and in applied surface analysis. Examples of analysis are provided to facilitate the understanding of this topic and to show readers how they can overcome problems within this area of study. **Surface and Interfacial Aspects of Biomedical Polymers** J.D.

Andrade, 2012-12-06 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. **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 microspectroscopy. 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. Surface and Interface Science, Volumes 9 and 10 Klaus Wandelt, 2020-03-30 In ten volumes this unique handbook covers all fundamental aspects of surface and interface science and offers a comprehensive overview of this research area for scientists working in the field as well as an introduction for newcomers. Volume 1 Concepts and Methods Volume 2 Properties of Elemental Surfaces Volume 3 Properties of Composite Surfaces Alloys Compounds Semiconductors Volume 4 Solid-Solid Interfaces and Thin Films Volume 5 Solid-Gas Interfaces I Volume 6 Solid-Gas Interfaces II Volume 7 Liquid and Biological Interfaces Volume 8 Interfacial Electrochemistry Volume 9 Applications of Surface Science I Volume 10 Applications of Surface Science II Content of Volumes 8-9 Surface Analytics with X-Ray Photoelectron and Auger Electron Spectroscopy on Coated Steel Sheets Applications of Graphene Industrial Heterogeneous Catalysis Automotive Catalysis High-Throughput Heterogeneous Catalyst Research Development Scale-Up and Production Support Industrial Separation of Insulating Particles Triboelectric Charging Friction Friend and Foe Surface Science and Flotation Application of Surface Science to Corrosion Electrocatalysis and the Transformation of Organic Molecules Self-Cleaning Surfaces From Fundamental Aspect to Real Technical Applications Thin Films Sputtering PVD Methods and Applications Wafer Bonding Superconformal Deposition Spintronics Surface and Interface Aspects Device Efficiency of Organic Light-Emitting Diodes Dye-Sensitized Solar Cells Electronic Nose Current Status and Future Trends Surface Science in Batteries Surface and Interface Science in Fuel Cells Research *Nanotechnological Basis for Advanced Sensors* Johann Peter Reithmaier, Perica Paunovic, Wilhelm Kulisch, Cyril Popov, Plamen Petkov, 2011-04-28 Bringing together experts from 15 countries this book is based on the lectures and contributions of the NATO Advanced Study Institute on Nanotechnological Basis for Advanced Sensors held in Sozopol Bulgaria 30 May-11 June 2010. It gives a broad overview on

this topic and includes articles on techniques for preparation and characterization of sensor materials different types of nanoscaled materials for sensor applications addressing both their structure nanoparticles nanocomposites nanostructured films etc and chemical nature carbon based oxides glasses etc and on advanced sensors that exploit nanoscience and nanotechnology In addition the volume represents an interdisciplinary approach with authors coming from diverse fields such as physics chemistry engineering materials science and biology A particular strength of the book is its combination of longer papers introducing the basic knowledge on a certain topic and brief contributions highlighting special types of sensors and sensor materials Plasma Surface Modification of Polymers: Relevance to Adhesion Kash L.

Mittal,M.,Lyons,2014-04-29 This book is a collection of invited papers previously published in special issues of the Journal of Adhesion Science and Technology written by internationally recognized researchers actively working in the field of plasma surface modification It provides a current comprehensive overview of the plasma treatment of polymers In contrast to plasm

The Encyclopedia of Mass Spectrometry ,2015-12-04 Volume 9 Historical Perspectives Part A The Development of Mass Spectrometry of The Encyclopedia of Mass Spectrometry describes and analyzes the development of many aspects of Mass Spectrometry Beginning with the earliest types of Mass Analyzers Historical Perspectives explores the development of many different forms of analytical processes and methods The work follows various instruments and interfaces to the current state of detectors and computerization It traces the use of Mass Spectrometry across many different disciplines including Organic Chemistry Biochemistry and Proteomics Environmental Mass Spectrometry Forensic Science Imaging Medical Monitoring and Diagnosis Earth and Planetary Sciences and Nuclear Science Finally the book covers the history of manufacturers and societies as well as the professionals who form the Mass Spectrometry community Also available Volume 9 Historical Perspectives Part B Notable People in Mass Spectrometry briefly reviews the lives and works of many of the major people who carried out this development Preserves the history and development of Mass Spectrometry for use across scientific fields Written and edited by Mass Spectrometry experts Coordinates with Volume 9 Historical Perspectives Part B Notable People in Mass Spectrometry a collection of short biographies on many of the major people who carried out this development

Analysis of Thermoset Materials, Precursors and Products Martin J. Forrest,2003 This report presents an overview of the chemical analysis of thermosets Materials based on thermosets present the analyst with considerable challenges due to their complexity and the wide range of polymer types and additives available This review sets out to present an introduction to the analytical techniques and methods that are used to characterise and carry out quality control work on thermosets investigate the failure of thermosets products and to reformulate thermoset compounds The review is accompanied by around 400 abstracts from papers and books in the Rapra Polymer Library database to facilitate further reading on this subject

Interfaces in Biomaterials Sciences D. Muster,G. Hastings,2014-04-11 This volume presents a comprehensive review on the actual trends in basic and applied research on biomaterials in hard tissue repair and reconstruction as well as their

consequences for both industry and society The importance of methods for high resolution characterization are highlighted the crucial problem of interactions is illustrated by a variety of methods which include implantation cell culture and microstructural examination Also included are papers on the recent developments in joint replacement maxillo facial nerve and ligament repair and dental implants *Molecular Characterization and Analysis of Polymers* John M. Chalmers,Robert J. Meier,2008-12-09 Written by expert contributors from the academic and industrial sectors this book presents traditional and modern approaches to polymer characterization and analysis The emphasis is on pragmatics problem solving and property determination real world applications provide a context for key concepts The characterizations focus on organic polymer and polymer product microstructure and composition Approaches molecular characterization and analysis of polymers from the viewpoint of problem solving and polymer property characterization rather than from a technique championing approach Focuses on providing a means to ascertaining the optimum approach or technique s to solve a problem measure a property and thereby develop an analytical competence in the molecular characterization and analysis of real world polymer products Provides background on polymer chemistry and microstructure discussions of polymer chain morphology degradation and product failure and additive analysis and considers the supporting roles of modeling and high throughput analysis

Developments in Polymer Analysis and Characterisation ,1999-12 Secondary Ion Mass Spectrometry Paweł Piotr Michałowski,2025-06-06 Secondary ion mass spectrometry SIMS is a technique used to analyse the composition of solid surfaces and thin films by sputtering the surface of the specimen with a primary ion beam and collecting and analysing ejected secondary ions The technique has been applied to quality assurance in semiconductor manufacture in forensics for enhancement of fingerprints and to determine the composition of cometary dust This book briefly introduces the fundamentals of the SIMS technique and discusses in detail recent advancements and applications in various branches of science From an extensive literature review it provides a good overview of how to reproduce the most prominent experiments and what instruments are required or suited to the analysis It will inspire new designs and hence research for the future Appealing to graduates or postgraduates who want an overview of the field and how to use this technique researchers new to this field will find innovative solutions and how to achieve them detailed herein

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