

Xps

Claudia Altavilla

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.

Handbook of X-ray Photoelectron Spectroscopy John F. Moulder, 1992

An Introduction to Surface Analysis by XPS and AES John F. Watts, John Wolstenholme, 2019-08-27 Provides a concise yet comprehensive introduction to XPS and AES techniques in surface analysis This accessible second edition of the bestselling book, *An Introduction to Surface Analysis by XPS and AES*, 2nd Edition explores the basic principles and applications of X-ray Photoelectron Spectroscopy (XPS) and Auger Electron Spectroscopy (AES) techniques. It starts with an examination of the basic concepts of electron spectroscopy and electron spectrometer design, followed by a qualitative and quantitative interpretation of the electron spectrum. Chapters examine recent innovations in instrument design and key applications in metallurgy, biomaterials, and electronics. Practical and concise, it includes compositional depth profiling; multi-technique analysis; and everything about samples—including their handling, preparation, stability, and more. Topics discussed in more depth include peak fitting, energy loss background analysis, multi-technique analysis, and multi-technique profiling. The book finishes with chapters on applications of electron spectroscopy in materials science and the comparison of XPS and AES with other analytical techniques. Extensively revised and updated with new material on NAPXPS, twin anode monochromators, gas cluster ion sources, valence band spectra, hydrogen detection, and quantification Explores key spectroscopic techniques in surface analysis Provides descriptions of latest instruments and techniques Includes a detailed glossary of key surface analysis terms Features an extensive bibliography of key references and additional reading Uses a non-theoretical style to appeal to industrial surface analysis sectors *An Introduction to Surface Analysis by XPS and AES*, 2nd Edition is an excellent introductory text for undergraduates, first-year postgraduates, and industrial users of XPS and AES.

An Introduction to Surface Analysis by XPS and AES John F. Watts, John Wolstenholme, 2019-11-04 Provides a concise yet comprehensive introduction to XPS and AES techniques in surface analysis This accessible second edition of the bestselling book, *An Introduction to Surface Analysis by XPS and AES*, 2nd Edition explores the basic principles and applications of X-ray Photoelectron Spectroscopy (XPS) and Auger Electron Spectroscopy (AES) techniques. It starts with an examination of the basic concepts of electron spectroscopy and electron spectrometer design, followed by a qualitative and quantitative interpretation of the electron spectrum. Chapters examine recent innovations in instrument design and key applications in metallurgy, biomaterials, and electronics. Practical and concise, it includes compositional depth profiling; multi-technique analysis; and everything about samples—including their handling, preparation, stability, and more. Topics discussed in more depth include peak fitting, energy loss background analysis, multi-technique analysis, and multi-technique profiling. The book finishes with chapters on applications of electron spectroscopy in materials science and the comparison

of XPS and AES with other analytical techniques. Extensively revised and updated with new material on NAPXPS, twin anode monochromators, gas cluster ion sources, valence band spectra, hydrogen detection, and quantification. Explores key spectroscopic techniques in surface analysis. Provides descriptions of latest instruments and techniques. Includes a detailed glossary of key surface analysis terms. Features an extensive bibliography of key references and additional reading. Uses a non-theoretical style to appeal to industrial surface analysis sectors. An Introduction to Surface Analysis by XPS and AES, 2nd Edition is an excellent introductory text for undergraduates, first-year postgraduates, and industrial users of XPS and AES.

X-ray Photoelectron Spectroscopy Paul van der Heide, 2011-11-01 This book introduces readers interested in the field of X-ray Photoelectron Spectroscopy (XPS) to the practical concepts in this field. The book first introduces the reader to the language and concepts used in this field and then demonstrates how these concepts are applied. Including how the spectra are produced, factors that can influence the spectra (all initial and final state effects are discussed), how to derive speciation, volume analysed and how one controls this (includes depth profiling), and quantification along with background subtraction and curve fitting methodologies. This is presented in a concise yet comprehensive manner and each section is prepared such that they can be read independently of each other, and all equations are presented using the most commonly used units. Greater emphasis has been placed on spectral understanding/interpretation. For completeness sake, a description of commonly used instrumentation is also presented. Finally, some complementary surface analytical techniques and associated concepts are reviewed for comparative purposes in stand-alone appendix sections.

Handbook of Monochromatic XPS Spectra B. Vincent Crist, 2000-10-19 These three volumes provide comprehensive information about the instrument, the samples, and the methods used to collect the spectra. The spectra are presented on a landscape format and cover a wide variety of elements, polymers, semiconductors, and other materials. Offers a clear presentation of spectra with the right amount of experimental detail. All of the experiments have been conducted under controlled conditions on the same instrument by a world-renowned expert.

An Introduction to Surface Analysis by XPS and AES John F. Watts, John Wolstenholme, 2019-08-15 Provides a concise yet comprehensive introduction to XPS and AES techniques in surface analysis. This accessible second edition of the bestselling book, An Introduction to Surface Analysis by XPS and AES, 2nd Edition explores the basic principles and applications of X-ray Photoelectron Spectroscopy (XPS) and Auger Electron Spectroscopy (AES) techniques. It starts with an examination of the basic concepts of electron spectroscopy and electron spectrometer design, followed by a qualitative and quantitative interpretation of the electron spectrum. Chapters examine recent innovations in instrument design and key applications in metallurgy, biomaterials, and electronics. Practical and concise, it includes compositional depth profiling; multi-technique analysis; and everything about samples—including their handling, preparation, stability, and more. Topics discussed in more depth include peak fitting, energy loss background analysis, multi-technique analysis, and multi-technique profiling. The book finishes with chapters on applications of electron spectroscopy in materials science and the comparison of XPS and AES with other analytical techniques. Extensively revised and updated with new material on NAPXPS, twin anode monochromators, gas cluster ion sources, valence band spectra, hydrogen detection, and quantification. Explores key spectroscopic techniques in surface analysis. Provides descriptions of latest instruments and techniques. Includes a detailed glossary of key surface analysis terms. Features an extensive bibliography of key references and additional reading. Uses a non-theoretical style to appeal to industrial surface analysis sectors. An Introduction to Surface Analysis by

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XPS-99: Knowledge-Based Systems - Survey and Future Directions Frank Puppe, 2005-11-20 A special year like 1999 invites one to draw a balance of what has been achieved in the roughly 30 years of research and development in knowledge based systems (still abbreviated as XPS following the older term "expert systems") and to take a look at what the future may hold. For the 5 German conference on knowledge-based systems we therefore asked current and former speakers of the four working groups (FG's) in the subdivision of knowledge-based systems (FA 1.5) of the German association of Informatics (GI) to present a survey of and future prospects for their respective fields: knowledge engineering, diagnosis, configuration, and case-based reasoning. An additional 14 technical papers deal with current topics in knowledge-based systems with an equal emphasis on methods and applications. They are selected from more than 50 papers accepted in the 4 parallel workshops of XPS-99: a) Knowledge Management, Organizational Memory and Reuse, b) various fields of applications, c) the traditional PuK Workshop (planning and configuration), and d) the GWCBR (German workshop on case-based reasoning). The other papers presented at these workshops are not included in this volume but are available as internal reports of Würzburg university together with the exhibition guide that emphasizing tool support for building knowledge based systems.

Complete Dell XPS Owner's Manual Mary C Hamilton, 2019-11-24 Get the most complete manual for your DELL XPS 13 Laptop now This manual is designed to be a walking guide as you begin your journey on the XPS 13 set of laptops. With just a single read, you will learn how to use the great features of your computer. The author carefully explains basic computer terminologies in easy-to-understand language for novices and beginners. In summary, you will discover: How to set up your laptop easily Important configuration settings to tweak immediately after purchase Useful software to install How to maximize the potential of your laptop for work use Tricks, tips and hacks for your Dell XPS 13 9380 laptop How to troubleshoot common problems and many more What stops you from purchasing this Dell XPS 13 owner's manual now?!

Handbook of X-ray Photoelectron Spectroscopy John F. Moulder, 1995

Auger- and X-Ray Photoelectron Spectroscopy in Materials Science Siegfried Hofmann, 2012-10-25 To anyone who is interested in surface chemical analysis of materials on the nanometer scale, this book is prepared to give appropriate information. Based on typical application examples in materials science, a concise approach to all aspects of quantitative analysis of surfaces and thin films with AES and XPS is provided. Starting from basic principles which are step by step developed into practically useful equations, extensive guidance is given to graduate students as well as to experienced researchers. Key chapters are those on quantitative surface analysis and on quantitative depth profiling, including recent developments in topics such as surface excitation parameter and backscattering correction factor. Basic relations are derived for emission and excitation angle dependencies in the analysis of bulk material and of fractional nano-layer structures, and for both smooth and rough surfaces. It is shown how to optimize the analytical strategy, signal-to-noise ratio, certainty and detection limit. Worked examples for quantification of alloys and of layer structures in practical cases (e.g. contamination, evaporation, segregation and oxidation) are used to critically review different approaches to quantification with respect to average matrix correction factors and matrix relative sensitivity factors. State-of-the-art issues in quantitative, destructive and non-destructive depth profiling are discussed with emphasis on sputter depth profiling and on angle resolved XPS and AES. Taking into account preferential sputtering and electron backscattering corrections, an introduction to the mixing-roughness-information depth (MRI) model and its

extensions is presented.

Handbook of X-ray Photoelectron Spectroscopy Jill Chastain,1995

X-ray Photoelectron Spectroscopy Johanna M. Wagner,2011

XPS Analysis of 440C Steel Surfaces Lubricated with Perfluoropolyethers Under Sliding Conditions in High Vacuum ,1994

An Introduction to Surface Analysis by XPS and AES. ,2003 Extensively revised and updated with additional material included in existing chapters and new material on angle resolved XPS, surface engineering and complimentary methods. Includes an accessible introduction to the key spectroscopic techniques in surface analysis. Provides descriptions of latest instruments and techniques. Includes a detailed glossary of key surface analysis terms.

Handbook of Monochromatic XPS Spectra B. Vincent Crist,2007

Xps with AI Samhita Joshi,2021-04-18 XPs with AI is a collection of original writings by a Recurrent Neural Network (and interruptions by a human). Proceed ONLY by not having an abundance of a liquid in your mouth!-if ignored, the results might be devastating.

CasaXPS Manual 2.3.15 Neal Fairley,Casa Software Ltd,2009

Cultural Heritage Materials Claudia Altavilla,2012 The continuous demand for new analytical methods in studies relating to art and archaeology has prompted researchers to investigate the possible applications of a variety of non-conventional and innovative analytical techniques. In this book, the authors describe several interesting applications of X-ray photoelectron spectroscopy in order to understand in greater detail the chemical phenomena which are present on the surface of archaeological and artistic objects which have been studied over the last ten years. After a preliminary discussion on the potentialities and limitations of XPS in this fascinating research field, a series of case studies on different kinds of art crafts is reported. The use of XPS, in monitoring the efficiency and the damage of restoring techniques on the surfaces of several masterpieces such as Michelangelo's David and the S. Marco Basilica (Venice) mosaics, is also critically discussed.

Xps procedure : acquiring a xps spectrum K. G. Irving,1998

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