

D.J. O'Connor, B.A. Sexton,
R.St.C. Smart (Eds.)

Surface Analysis Methods in Materials Science

Second Edition
With 272 Figures



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Surface Analysis Methods In Materials Science

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Surface Analysis Methods In Materials Science:

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.

Surface Analysis Methods in Materials Science D. John O'Connor, 1992 This comprehensive and up to date guide to the use of surface analysis methods in materials science consists of three parts: an extensive introduction to the concepts of surface structure and composition; a techniques section describing fourteen surface methods; and a separate section on applications. Each chapter is written by a specialist in the field. The surface methods described include SAM, XPS, SIMS and other ion beam methods, LEED, RHEED, RBS and NRA, FTIR, SEM, STM, UPS and magnetic methods. Among the areas of application discussed are adsorption, catalysis, coated steel surfaces, inorganic surfaces, semiconductor devices, thin film solar cells and high temperature oxidation. This detailed exposition will enable researchers to select and exploit the appropriate surface method for a given application.

Handbook of Surface and Interface Analysis John C. Riviere, Sverre Myhra, 2009-06-24 The original Handbook of Surface and Interface Analysis Methods for Problem Solving was based on the authors' firm belief that characterization and analysis of surfaces should be conducted in the context of problem solving and not be based on the capabilities of any individual technique. Now a decade later, trends in science and technology appear.

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.

Handbook of Adhesive Technology, Revised and Expanded Antonio Pizzi, Kashmiri L. Mittal, 2003-08-06 The Handbook of Adhesive Technology Second Edition exceeds the ambition of its bestselling forerunner by reexamining the mechanisms driving adhesion categories of adhesives techniques for bond formation and evaluation and major industrial applications Integrating modern technological innovations into adhesive preparation and application this greatly expanded and updated edition comprises a total of 26 different adhesive groupings including three new classes The second edition features ten new chapters a 40 page list of resources on adhesives and abundant figures tables equations **Proceedings of the Symposium on the Application of Surface Analysis Methods to Environmental/Material Interactions** Donald Ray Baer, Clive R. Clayton, G. D. Davis, 1991 **Surface Analysis of Paper** Terrance E. Conners, Sujit Banerjee, 1995-07-26 Surface Analysis of Paper examines surface analysis techniques from a paper industry perspective and places heavy emphasis on applications Modern techniques including ion mass spectrometry infrared spectroscopy and optical profilometry are reviewed in a straightforward manner This new book provides details on widely used methods and instruments and discusses how they can be used to attain for example contour maps of the microscopic constituents on paper surfaces and accurate analyses of the physical properties of paper Organized into three sections Surface Analysis of Paper provides thorough coverage of the physical characteristics of paper and a clear picture of new and emerging analytical methods Carefully chosen background material on fundamental concepts is included wherever such material assists in understanding the uses of analysis methods Each chapter contains An introduction A description of the technique A discussion of the type of information that can be obtained with the particular technique Practical examples to demonstrate the advantages of the technique *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

Quantitative Surface Analysis for Materials Science Graham C. Smith,1991 Discusses the range of methods used to describe the structure composition and chemical nature of material surfaces comparing the merits of each The techniques standardly used in analytical laboratories auger electron and x ray photoelectron spectroscopy and secondary mass ion spectrometry are d

An Introduction to Surface Analysis by XPS and AES John F. Watts,John Wolstenholme,2003-05-07 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

Metals and Materials ,1992 *Encyclopedia of Materials Science and Engineering* ,1988

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Handbook of Surface and Colloid Chemistry K. S. Birdi,1997-10-22 European North American Canadian and South Asian scientists have joined forces to create the only handbook in existence on the chemistry of surface and colloidal systems Never before has the massive amount of data required by surface research chemists been available in a single volume With this new handbook searching through journals for a piece of data becomes obsolete All the facts and figures you need in the laboratory or in the classroom are at your finger tips The data is presented in a unique style and format providing a guide for future research planning

ASTM Standards on Surface Analysis American Society for Testing and Materials,ASTM Committee E-42 on Surface Analysis,1986 *Materials Forum* ,1994 *Cornell University Courses of Study* Cornell University,1998

Solar Materials Science Lawrence Eugene Murr,1980 *Energy Research Abstracts* ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and

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