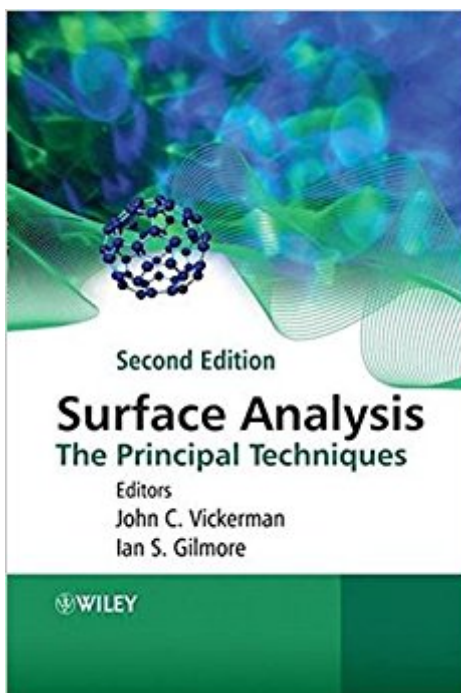


The book was found

# Surface Analysis: The Principal Techniques



## Synopsis

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.

## Book Information

Paperback: 686 pages

Publisher: Wiley; 2nd edition (April 27, 2009)

Language: English

ISBN-10: 0470017643

ISBN-13: 978-0470017647

Product Dimensions: 6.7 x 1.7 x 9.6 inches

Shipping Weight: 3.2 pounds (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 stars 4 customer reviews

Best Sellers Rank: #407,606 in Books (See Top 100 in Books) #54 in Books > Science & Math > Technology > Nanotechnology #303 in Books > Science & Math > Chemistry > Physical & Theoretical #418 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Materials Science

## Customer Reviews

The second edition of this successful textbook provides a clear, well-written introduction to the principal techniques used in surface analysis, together with the computational methods used to interpret the increasingly complex data generated by them. Coverage includes the basic theory and practice of each technique together with practical examples of its use and application and most chapters include review questions enabling the reader to develop and test their understanding. Includes the following new material: A completely new chapter on 'Dynamic SIMS' A completely new chapter on 'The Application of Multivariate Data Analysis Techniques in Surface Analysis' All the other chapters have been extensively revised. Many now include illustrative applications and development from the fields of biotechnology and nanotechnology. *Surface Analysis: the Principal Techniques 2nd Edition*, will be appropriate for the scientifically literate lay-person and for use in

specialist undergraduate courses in materials and analytical sciences. Post-graduate M.Sc. and Ph.D. students involved in surface analysis and research whether concerned with inorganic, organic or biological materials will find it particularly useful. In addition, industrial analytical scientists will find this book an invaluable introduction to bring rapid familiarity with the capabilities of the various techniques. Thus this book should be of value to those who need to have a wide overview of the techniques in education or in industrial quality control or R&D laboratories. For those who wish to further develop their knowledge and practice of particular techniques, it should also give a good basic understanding from which to build.

John C. Vickerman BSc in Chemistry (Edinburgh), Ph.D. in Surface Chemistry (Bristol), DSc (Bristol). Predoctoral fellowships at the Universities of Perugia and Rome, postdoctoral fellowships at the University of Bristol and the Technical University of Eindhoven. Sabbatical study periods at the University of Munich, the Free University of Berlin and Pennsylvania State University. Dr Ian Gilmore, Surface and Nano-Analysis, National Physical Laboratory, Teddington, UK Ian is a Principal Research Scientist in the Surface and Nano-Analysis Research team and joined NPL in 1991. His research has a focus on the analysis of complex molecules at surfaces. Recent research has led to the development of a novel new variant of static SIMS called gentle-SIMS or G-SIMS, He received a degree in Physics from the University of Manchester in 1991 and a PhD from the University of Loughborough in 2000. Ian is a Fellow of the Institute of Physics a member of the EPSRC College and a member of the American Vacuum Society.

The paperback version has some mistakes that are rather easily picked up though. The book itself gives good overview to instrumentation and share some tips for practical considerations involving multivariate analysis. Discussions stay at understandable level for chemists as well. The book is definitely good for introductory level for each presented instrumentation.

This is a great, quick and dirty review of the principles and theories of many of the modern surface analysis techniques available today. The sections on Auger and ESCA were well written, however, feel the SIMS chapters need to be developed to incorporate the quantitative methods emerging for SIMS.

Good book.

Excellent buy.

[Download to continue reading...](#)

Surface Analysis: The Principal Techniques Surface Wave Methods for Near-Surface Site Characterization Surface and Interface Analysis: An Electrochemists Toolbox (Springer Series in Chemical Physics) Principles and Applications of Ion Scattering Spectrometry: Surface Chemical and Structural Analysis (Wiley Series on Mass Spectrometry) Surface Analysis of Polymers by XPS and Static SIMS (Cambridge Solid State Science Series) Palpation Techniques: Surface Anatomy for Physical Therapists Surface Treatment Workshop: Explore 45 Mixed-Media Techniques The Art of Polymer Clay Creative Surface Effects: Techniques and Projects Featuring Transfers, Stamps, Stencils, Inks, Paints, Mediums, and More Playing with Surface Design: Modern Techniques for Painting, Stamping, Printing and More The Hand-Stitched Surface: Slow Stitching and Mixed-Media Techniques for Fabric and Paper Polymer Clay Surface Design Recipes: 100 Mixed-Media Techniques Plus Project Ideas Coatings Tribology, Volume 56, Second Edition: Properties, Mechanisms, Techniques and Applications in Surface Engineering (Tribology and Interface Engineering) Analytics: Business Intelligence, Algorithms and Statistical Analysis (Predictive Analytics, Data Visualization, Data Analytics, Business Analytics, Decision Analysis, Big Data, Statistical Analysis) Analytics: Data Science, Data Analysis and Predictive Analytics for Business (Algorithms, Business Intelligence, Statistical Analysis, Decision Analysis, Business Analytics, Data Mining, Big Data) The Pilgrim's Guide to Rome's Principal Churches: Illustrated Guided Tours of Fifty-one of the Most Important Churches of Rome Principal Cello: 12 repertoire pieces for cello, Grades 6-8 Resetology: Calming and Connecting Secrets From The Principal's Office The Bridge to Brilliance: How One Principal in a Tough Community Is Inspiring the World On The Principal Articles Of The Christian Religion: Commenced By The Author Chiefly For The Purpose Of Forming A System Of Divinity (With Active Table of Contents) Official guide to the Botanic Gardens, Dominica : illustrated : with an index of the principal plants

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)