

WILEY SERIES IN ION CHEMISTRY AND PHYSICS

# LOW ENERGY ION–SURFACE INTERACTIONS

*Editor*

**J. Wayne Rabalais**



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# Low Energy Ion Surface Interactions

**Bernd Schultrich**



## **Low Energy Ion Surface Interactions:**

**Low Energy Ion-Surface Interactions** J. Wayne Rabalais, 1994-05-09 Low Energy Ion Surface Interactions Edited by J Wayne Rabalais University of Houston Texas USA Recent advances in experimental techniques and theoretical methodologies mean that increasingly detailed and sophisticated studies of state or energy selected molecular ions can now be performed Each volume in this series will be dedicated to reviewing a specific topic emphasizing new experimental and theoretical developments in the study of ions This volume details the current understanding of Low Energy Ion Surface Interactions along with some of the novel applications Each of the ten chapters is authored by active researchers in the field who are at the forefront of research in their particular areas This up to date compilation detailing developments occurring within the last five years will be particularly useful to researchers and teachers involved with Low Energy Ion Surface Interactions

Low Energy Ion-surface Interactions , 1974

**Low Energy Ion-surface Interactions** Simon Patrick Mouncey, 1992

*Low-Energy Ion Irradiation of Materials* Bernd Rauschenbach, 2022-08-19 This book provides a comprehensive introduction to all aspects of low energy ion solid interaction from basic principles to advanced applications in materials science It features a balanced and insightful approach to the fundamentals of the low energy ion solid surface interaction focusing on relevant topics such as interaction potentials kinetics of binary collisions ion range radiation damages and sputtering Additionally the book incorporates key updates reflecting the latest relevant results of modern research on topics such as topography evolution and thin film deposition under ion bombardment ion beam figuring and smoothing generation of nanostructures and ion beam controlled glancing angle deposition Filling a gap of almost 20 years of relevant research activity this book offers a wealth of information and up to date results for graduate students academic researchers and industrial scientists working in these areas *Ion-Solid Interactions* Michael Nastasi, James W. Mayer, James K. Hirvonen, 1996-03-29 Comprehensive guide to an important materials science technique for students and researchers

**Fundamentals of Gas-Surface Interactions** Howard Saltsburg, Joe N. Smith, Milton Rogers, 2013-10-22 Fundamentals of Gas Surface Interactions presents the study of the surface itself and the study of the gas phase partner of the interaction in which physical or chemical transformation of the gas resulted from that interaction This book discusses the study of the energy and momentum exchanges resulting from the gas solid physical interaction in which either gas or solid phase properties can be measured Organized into three parts encompassing 33 chapters this book begins with an overview of the different sensitive physical methods for the study of surface topography surface defects and surface irregularities to an accuracy of a few Angstroms This text then reviews the adsorption at very low coverage that has yielded to equilibrium analysis Other chapters consider the measurement of surface area by adsorption and optical techniques The final chapter deals with scattering processes including momentum and energy transfer This book is a valuable resource for engineers

*Ion Surface Interaction, Sputtering and Related Phenomena* Rainer Behrisch, 1973

Dynamics of Gas-Surface

Interactions Ricardo Diez Muino, Heriberto Fabio Busnengo, 2013-02-26 This book gives a representative survey of the state of the art of research on gas surface interactions. It provides an overview of the current understanding of gas surface dynamics and in particular of the reactive and non reactive processes of atoms and small molecules at surfaces. Leading scientists in the field both from the theoretical and the experimental sides write in this book about their most recent advances. Surface science grew as an interdisciplinary research area over the last decades mostly because of new experimental technologies: ultra high vacuum for instance as well as because of a novel paradigm: the surface science approach. The book describes the second transformation which is now taking place pushed by the availability of powerful quantum mechanical theoretical methods implemented numerically. In the book experiment and theory progress hand in hand with an unprecedented degree of accuracy and control. The book presents how modern surface science targets the atomic level understanding of physical and chemical processes at surfaces with particular emphasis on dynamical aspects. This book is a reference in the field. Proceedings of Conference on Low Energy Ion Surface Interactions Conference on Low Energy Ion Surface Interactions. 1974, Liverpool, 1974. **Principles and Applications of Ion Scattering Spectrometry** J. Wayne Rabalais, 2002-10-11 Ion scattering spectrometry: a powerful analytical tool used to determine the structure and composition of a substance addresses critical problems in semiconductors, thin film growth, coatings, computer chips, magnetic storage devices, bioreactive surfaces, catalytic surfaces and electrochemical surfaces including the large battery industry. **Principles and Applications of Ion Scattering Spectrometry: Surface Chemical and Structural Analysis** represents the first and only book on this exciting field, seamlessly merging theoretical fundamentals with cutting edge practical applications. Author J. Wayne Rabalais, the world's leading expert in ion scattering spectrometry, recognizes both the pedagogic and research needs of such a text and divides his work accordingly. Chapters 1 through 5 address senior undergraduates and beginning graduate students in chemical physics and include figures and illustrative diagrams intended to exemplify the discussions. Chapters 6 through 9 comprise material on the brink of current research and contain specific references to other sources at the end of each further chapter. Chapter 10 is a bibliography of ion scattering publications. Topics covered include: Introductory theoretical and experimental aspects of ion scattering; General features and structural analysis; The recent technique of scattering and recoiling imaging spectrometry; Examples of structural analysis; Ion surface charge exchange phenomena; Hyperthermal ion surface interactions. Engineers, researchers, professors and postdoctoral associates involved in surface analysis, surface science and studies of surfaces of materials will find Rabalais' incomparable study a seminal moment in the advance of ion scattering spectrometry. *Compendium of Surface and Interface Analysis* The Surface Science Society of Japan, 2018-02-19 This book concisely illustrates the techniques of major surface analysis and their applications to a few key examples. Surfaces play crucial roles in various interfacial processes and their electronic/geometric structures rule the physical/chemical properties. In the last several decades various techniques for surface analysis have been developed in conjunction with

advances in optics electronics and quantum beams This book provides a useful resource for a wide range of scientists and engineers from students to professionals in understanding the main points of each technique such as principles capabilities and requirements at a glance It is a contemporary encyclopedia for selecting the appropriate method depending on the reader's purpose

*Low-energy Ion-surface Interactions at Semiconductor and High-Tc Superconductor Surfaces* Reuben David Gann, 2011 Low energy ion scattering is a powerful surface analysis technique for interrogating the structural and chemical makeup of a surface as well as the electronic structure We used this technique to probe the local electrostatic potential of Bi subscript 2 Sr subscript 2 CaCu subscript 2 O subscript 8 and corroborated the findings of density functional theory Sputtering with Ar subscript ions was conducted on this same material revealing the formation of a Bi capping layer that prevents further damage due to the low surface energy of Bi Finally scattering was used to investigate atom surface charge exchange at the Si 111 surface as a function of doping a fundamental study which revealed that the bulk band gap has a strong effect on the neutralization of scattered ions despite the work function being unchanged with added dopants

*Ion Beam Processing of Materials and Deposition Processes of Protective Coatings* P.L.F. Hemment, Yves Pauleau, J. Gyulai, R.B. Simonton, I. Yamada, J.-P. Thomas, P. Thévenard, W.L. Brown, P.B. Barna, G. Wahl, 2012-12-02 Containing the proceedings of three symposia in the E MRS series this book is divided into two parts Part one is concerned with ion beam processing a particularly powerful and versatile technology which can be used both to synthesise and modify materials including metals semiconductors ceramics and dielectrics with great precision and excellent control Furthermore it also deals with the correlated effects in atomic and cluster ion bombardment and implantation Part two deals with the deposition techniques characterization and applications of advanced ceramic metallic and polymeric coatings or thin films for surface protection against corrosion erosion abrasion diffusion and for lubrication of contracting surfaces in relative motion

**Scientific and Technical Aerospace Reports**, 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

**Tetrahedrally Bonded Amorphous Carbon Films I** Bernd Schultrich, 2018-03-10 This book presents the status quo of the structure preparation properties and applications of tetrahedrally bonded amorphous carbon ta C films and compares them with related film systems Tetrahedrally bonded amorphous carbon films ta C combine some of the outstanding properties of diamond with the versatility of amorphous materials The book compares experimental results with the predictions of theoretical analyses condensing them to practicable rules It is strictly application oriented emphasizing the exceptional potential of ta C for tribological coatings of tools and components

**Sputtering by Particle Bombardment** Rainer Behrisch, Wolfgang Eckstein, 2007-07-30 This book provides a long needed survey of new results Especially welcome is a new summary of the measured and calculated sputtering yields with an algebraic approximation formula for the energy and angular dependence of the yields which is useful for researchers who need sputtering yields for

physics research or applied problems The book offers a critical review of computational methods for calculating sputtering yields and also includes molecular dynamics calculations

**Dynamics of Gas-Surface Interaction** Giorgio Benedek, U.

Valbusa, 2012-12-06 In recent decades surface science has experienced a large growth in connection with the development of various experimental techniques which are able to characterize solid surfaces through the observation of the scattering of ions electrons photons or atoms These methods of investigation known under different labels such as LEED AES XPS UPS etc have been extensively applied in describing the structure morphology and chemical and physical properties of crystal surfaces and interfaces of a large variety of materials of interest in solid state physics electronics metallurgy biophysics and heterogeneous catalysis Among these methods we wish to emphasize molecular beam scattering from solid surfaces Molecular beam scattering has gone through a large development in the last ten years In this decade a large number of laboratories have used this method to study various clean and adsorbate covered surfaces The technique is nonetheless quite old It dates back to the beginning of the thirties when Estermann and Stern performed the first atom diffraction experiment proving the wave nature of atoms In the following years the entire subject of gas surface interaction was considered a branch of rarefied gas dynamics and developed in connection with aerospace research Attention was then given to the integral properties of gas solid interactions sticking and energy accommodation mean momentum transfer rather than to atom surface scattering from well characterized surfaces

**Frontiers in Surface Science and Interface Science** C.B. Duke, E. Ward

Plummer, 2002-05-21 Any notion that surface science is all about semiconductors and coatings is laid to rest by this encyclopedic publication Bioengineered interfaces in medicine interstellar dust DNA computation conducting polymers the surfaces of atomic nuclei all are brought up to date Frontiers in Surface and Interface Science a milestone publication deserving a wide readership It combines a sweeping expert survey of research today with an educated look into the future It is a future that embraces surface phenomena on scales from the subatomic to the galactic as well as traditional topics like semiconductor design catalysis and surface processing modeling and characterization And great efforts have been made to express sophisticated ideas in an attractive and accessible way Nanotechnology surfaces for DNA computation polymer based electronics soft surfaces interstellar surface chemistry all feature in this comprehensive collection

**Energy**

**Research Abstracts**, 1992 *Materials and Processes for Surface and Interface Engineering* Y. Pauleau, 2012-12-06

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