



# Erosion and Growth of Solids Stimulated by Atom and Ion Beams

Edited by

G. Kiriakidis, G. Carter and J.L. Whitton

NATO ASI Series

# Erosion And Growth Of Solids Stimulated By Atom And Ion Beams

**Rosina Ehmman**



## **Erosion And Growth Of Solids Stimulated By Atom And Ion Beams:**

**Erosion and Growth of Solids Stimulated by Atom and Ion Beams** G. Kiriakidis, G. Carter, J.L. Whitton, 2012-12-06

The members of the organising Committee and their colleagues have for many years been investigating the evolution of the fascinating surface features which develop during sputtering erosion of solids. Such experimental, theoretical and computational studies have also been carried out in many international laboratories and as well as much controversy and agreement, substantial disagreements were unresolved. In view of the increasing importance of such processes in technological applications such as microlithographic etching for the patterning of solid state devices and in fusion technology, it was felt opportune to hold a meeting in this area. Furthermore, the use of energetic atomic and ion fluxes is also becoming of increasing importance in assisting or modifying the growth of thin films in a number of important industrial processes and it was therefore rational to combine the study of both erosional and growth processes in a single meeting. These proceedings include 16 invited review and 15 oral or poster presented contributions to the NATO Advanced Study Institute on the Erosion and Growth of Solids Stimulated by Atom and Ion Beams. The review contributions span the range from the fundamental concepts of ballistic sputtering and how this influences surface morphology evolution through processes involving entrapment of incident species to mechanisms involved in the use of chemically reactive ion species. Further reviews outline the influence of energetic irradiation upon surface growth by atomic deposition whilst others discuss technological applications of both areas of growth and erosion.

### **Materials Modification by High-fluence Ion Beams**

Roger Kelly, M. Fernanda da Silva, 2012-12-06 Proceedings of the NATO Advanced Study Institute on Materials Modification by High Fluence Ion Beams, Viana do Castelo, Portugal, August 24 - September 4, 1987

### **Fundamental Aspects of Inert**

**Gases in Solids** S.E. Donnelly, J.H. Evans, 2013-12-20 The NATO Advanced Research Workshop on Fundamental Aspects of Inert Gases in Solids held at Bonas, France, from 16-22 September 1990 was the fifth in a series of meetings that have been held in this topic area since 1979. The Consultants Meeting in that year at Harwell on Rare Gas Behaviour in Metals and Ionic Solids was followed in 1982 by the Jilich International Symposium on Fundamental Aspects of Helium in Metals. Two smaller meetings have followed: a CECAM organised workshop on Helium Bubbles in Metals was held at Orsay, France, in 1986 while in February 1989 a Topical Symposium on Noble Gases in Metals was held in Las Vegas as part of the large TMS AIME Spring Meeting. As is well known, the dominating feature of inert gas atoms in most solids is their high heat of solution leading in most situations to an essentially zero solubility and gas atom precipitation. In organising the workshop, one particular aim was to target the researchers in the field of inert gas solid interactions from three different areas, namely metals, hydrides and nuclear fuels, in order to encourage and foster the cross-fertilisation of approaches and ideas. In these three material classes, the behaviour of inert gases in metals has probably been most studied, partly from technological considerations, the effects of helium production via nuclear reactions during neutron irradiation are of importance, particularly in

a fusion reactor environment and partly from a more fundamental viewpoint

*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

**Chemical Physics of Thin Film Deposition Processes for Micro- and Nano-Technologies** Y. Pauleau, 2012-12-06 An up to date collection of tutorial papers on the latest advances in the deposition and growth of thin films for micro and nano technologies The emphasis is on fundamental aspects principles and applications of deposition techniques used for the fabrication of micro and nano devices The deposition of thin films is described emphasising the gas phase and surface chemistry and its effects on the growth rates and properties of films Gas phase phenomena surface chemistry growth mechanisms and the modelling of deposition processes are thoroughly described and discussed to provide a clear understanding of the growth of thin films and microstructures via thermally activated laser induced photon assisted ion beam assisted and plasma enhanced vapour deposition processes A handbook for engineers and scientists and an introduction for students of microelectronics

**Beam Processing Technologies** Norman G. Einspruch, S. S. Cohen, Raj N. Singh, 2014-12-01 Beam Processing Technologies is a collection of papers that deals with the miniaturization of devices that will be faster consume less power and cost less per operation or fabrication One paper discusses metal oxide semiconductor MOS integrated circuit technology including the operation of devices whose lateral and vertical dimensions are scaled down If the devices silicon doping profiles are increased by the same scale factor they can operate on lower voltages and currents with the same performance Another paper describes laser beam processing and wafer scale integration as techniques to increase the number of devices on a silicon chip Electron beam technologies can be used in many fabrication processes such as in microlithography selective oxidation doping metrology Ion beam applications depend on the presence of the ion introduced into the device e g implantation doping on pseudoelastic collisions e g physical sputtering or crystal damage and on inelastic scattering e g polymer resist exposure Silicon molecular beam epitaxy SiMBE can also grow high quality layers at low temperature particularly concerning germanium especially as regards the growth system design and utilization of n and p type doping Chemical beam epitaxy CBE is another epitaxial growth technique that can surpass MBE and metal organic chemical vapor deposition MO CVD The collection is suitable for chemical engineers industrial physicists and researchers whose work involve

micro fabrication and development of integrated circuits *INIS Atomindex*, 1988 *Ion Beam and Annealing Induced Effects in Solid Materials Detected by Nuclear Methods* Marja Erola, 1988 *Proceedings of the Royal Society of London* Royal Society (Great Britain), 1986 Publishes research papers in the mathematical and physical sciences Continued by *Proceedings Mathematical and physical sciences* and *Proceedings Mathematical physical and engineering sciences*

**Plasma-Surface Interactions and Processing of Materials** O. Auciello, Alberto Gras-Martí, Jose Antonio Valles-Abarca, Daniel L. Flamm, 2012-12-06 An understanding of the processes involved in the basic and applied physics and chemistry of the interaction of plasmas with materials is vital to the evolution of technologies such as those relevant to microelectronics fusion and space The subjects dealt with in the book include the physics and chemistry of plasmas plasma diagnostics physical sputtering and chemical etching plasma assisted deposition of thin films ion and electron bombardment and plasma processing of inorganic and polymeric materials The book represents a concentration of a substantial amount of knowledge acquired in this area knowledge which was hitherto widely scattered throughout the literature and thus establishes a baseline reference work for both established and tyro research workers

**Materials and Processes for Surface and Interface Engineering** Y. Pauleau, 2012-12-06 Materials and Processes for Surface and Interface Engineering which has been written by experts in the fields of deposition technology and surface modification techniques offers up to date tutorial papers on the latest advances in surface and interface engineering The emphasis is on fundamental aspects principles and applications of plasma and ion beam processing technology A handbook for the engineer and scientist as well as an introduction for students in several branches of materials science and surface engineering *Advances in Electronics and Electron Physics*, 1990-11-16 *Advances in Electronics and Electron Physics*

**Nonlinear Structures in Physical Systems** Lui Lam, Hedley C. Morris, 2012-12-06 Structures in Nature are ubiquitous and fascinating In natural and mathematical systems nonlinear structures roughly speaking are those resulting from nonlinear equations the investigation of which forms a large and integral part of the new branch of science the nonlinear science Like nonlinear science in general non linear structures is a truly interdisciplinary subject which involves physicists chemists biologists material scientists mathematicians engineers etc In view of the recent rapid developments in this subject and the existence of a converging picture which acts to unify some of the previously considered separate subfields of research we think it is time to bring together various experts to exchange ideas and share their newest findings The Second Woodward Confer ence afforded us a chance to do exactly this Accordingly this second conference in the series was devoted to the subject of Nonlinear Structures in Physical Sys tems Pattern Formation Chaos and Waves and was held at San Jose State Uni versity on November 17 18 1989

**Surface Modeling Engineering** Ram Kossowsky, 1989-07-31 These volumes present the general parctitioners in engineering with a comprehensive discussion of technological surfaces their interactions with environments and the various modification techniques available to improve their performance In each subject applications to metals ceramics and polymers

are emphasized The interactions with the environment are described corrosion chemical friction and waer mechanical and bioreactivity physiological Reviews of major modification schemes such as chemical vapor deposition physical vapor deposition laser beam interactions chemical infusion and ion implantation are presented In summary reviews of applications of the modification techniques to optimize the performances of structural components tools electronic devices and implantable medical devices manufactured out of metals ceramic and polymers are described     **Surface**

**Segregationphenomena** Peter A. Dowben,Allen Miller,2025-12-20 The purpose of this book is to discuss the phenomena associated with the segregation of one element in a multicomponent material It describes the kinetics of segregation and contains a tabular summary of the pros and cons of the various models The easy to read chapters outline in detail the macroscopic approach and provide an in depth review of broken bond models This comprehensive informative resource also addresses important multicomponent systems These systems include metals with non metallic constituents semiconductor metal interfaces steels and steel related alloys and real catalysts Readers of this text will gain a good fundamental understanding and overview of surface interfacial and selvedge segregation Those who have an interest in physics vacuum science material science and chemical mechanical and electrical engineering will benefit from this imperative work

**Energy Research Abstracts** ,1990     *Handbook of Ion Beam Processing Technology* Jerome J. Cuomo,Stephen M. Rossnagel,Harold R. Kaufman,1989 This book by 36 authorities on the subject deals with ion beam processing for basic sputter etching of samples for sputter deposition of thin films for synthesis of material in thin film form and of the modification of thin film properties     **Sputtering by Particle Bombardment** Rainer Behrisch,1981     *Electrical, Optical and Acoustic Properties of Polymers* ,1988     *Meetings on Atomic Energy* ,1985

## The Enigmatic Realm of **Erosion And Growth Of Solids Stimulated By Atom And Ion Beams**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Erosion And Growth Of Solids Stimulated By Atom And Ion Beams** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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### **Erosion And Growth Of Solids Stimulated By Atom And Ion Beams Introduction**

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