

# Structure-Property Relationships in Surface-Modified Ceramics

Edited by

Carl J. McHargue, Ram Kossowsky and Wolfgang O. Hofer

NATO ASI Series

# **Structure Property Relationships In Surface Modified Ceramics**

I. Yamada, H. Ishiwara, E. Kamijo

### **Structure Property Relationships In Surface Modified Ceramics:**

Structure-Property Relationships in Surface-Modified Ceramics C.J. McHargue,R. Kossowsky,Wolfgang O. Hofer,2012-12-06 The use of ion beams for the modification of the structure and properties of the near surface region of ceramics began in earnest in the early 19805 Since the mechanical properties of such materials are dominated by surface flaws and the surface stress state the use of surface modification tech niques would appear to be an obvious application As is often the case in research and development most of the initial studies can be characterized as cataloging the response of various ceramic materials to a range of ion beam treatments The systematic study of material and ion beam parameters is well underway and we are now designing experiments to provide specific information about the processing parameter structure property relationships This NATO Advanced Study Institute was convened in order to assess our current state of knowledge in this field to identify opportunities and needs for further research and to identify the potential of such processes for technological application. It became apparent that this class of inorganic compounds loosely termed ceramics presents many challenges to the understanding of ion solid inter actions the relationships among ion beam parameters materials parameters and the resulting structures as well as relationships between structure and properties. In many instances this understanding will represent a major extension of that learned from the study of metals and semiconductors.

Structure-Property Relationships in Surface-Modified Ceramics. NATO Advanced Science Institutes, Series E: Applied Sciences, 1989 The use of ion beams for the modification of the structure and properties of the near surface region of ceramics began in earnest in the early 1980s Since the mechanical properties of such materials are dominated by surface flaws and the surface stress state the use of surface modification techniques would appear to be an obvious application As is often the case in research and development most of the initial studies can be characterized as cataloging the response of various ceramic materials to a range of ion beam treatments The systematic study of material and ion beam parameters is well underway and we are now designing experiments to provide specific information about the processing parameter property relationships The first group of lectures dealt structure property with the fundamentals of ion solid interactions and the defect structure of compounds Chemical and thermodynamic factors appear to be significantly more important than for simple metallic systems The second group of lectures concerned the experimentally observed microstructural features and phase structures that develop during ion beam processing of ceramics The properties of ion implanted and ion beam mixed ceramics were treated in Part III and included discussions on mechanical tribological chemical electrical and optical properties The final section was concerned with thin films and coatings prepared by ion beam assisted processes Symposia

**Surface & Coatings Technology** B. D. Sartwell, A. Matthews, 2016-06-03 Surface Coatings Technology Volumes 59 60 presents the proceedings of the Third International Conference on Plasma Surface Engineering held in Garmisch Partenkirchen Germany on October 26 29 1992 This book discusses the widespread applications of plasma and particle beam

assisted methods in surface and thin film technology Volume 59 is organized into 11 parts encompassing 69 chapters while Volume 60 is comprised of eight parts encompassing 49 chapters This compilation of papers begins with an overview of the kinetic modelling of low pressure high frequency discharges This text then examines the effect of various deposition parameters on the growth of chamber wall deposits Other chapters consider the physiochemical behavior of ceramic materials for space applications. This book discusses as well the economic aspects of the application of plasma surface technologies The reader is also introduced to the environmental aspects of physical vapor deposition coating technology This book is a valuable resource for plasma surface engineers technologists and researchers **Scientific and Technical** Mechanical Properties and Deformation Behavior of Materials Having Ultra-Fine Aerospace Reports ,1990 Microstructures M. Nastasi, Don M. Parkin, Herbert Gleiter, 2012-12-06 In an attempt to meet the demand for new ultra high strength materials the processing of novel material configurations with unique microstructure is being explored in systems which are further and further from equilibrium One such class of emerging materials is the so called nanophased or nanostructured materials This class of materials includes metals and alloys ceramics and polymers characterized by controlled ultra fine microstructural features in the form oflayered fibrous or phase and grain distribution While it is clear that these materials are in an early stage of development there is now a sufficient body of literature to fuel discussion of how the mechanical properties and deformation behavior can be controlled through control of the microstructure This NATO Advanced Study Institute was convened in order to assess our current state of knowledge in the field of mechanical properties and deformation behavior in materials with ultra fine microstructure to identify opportunities and needs for further research and to identify the potential for technological applications. The Institute was the first international scientific meeting devoted to a discussion on the mechanical properties and deformation behavior of materials having grain sizes down to a few nanometers Included in these discussions were the topics of superplasticity tribology and the supermodulus effect Lectures were also presented which covered a variety of other themes including synthesis characterization thermodynamic stability and general physical properties Materials Science and Engineering at the Naval Research Laboratory Naval Research Laboratory (U.S.), 1989 Nanocomposite Thin Films And Coatings: Processing, Properties And **Performance** Sam Zhang, Nasar Ali, 2007-10-08 Materials development has reached a point where it is difficult for a single material to satisfy the needs of sophisticated applications in the modern world Nanocomposite films and coatings achieve much more than the simple addition of the constitutents the law of summation fails to work in the nano world This book encompasses three major parts of the development of nanocomposite films and coatings the first focuses on processing and properties the second concentrates on mechanical performance and the third deals with functional performance including wide application areas ranging from mechanical cutting to solar energy and from electronics to medicine a Wear Particles: From the Cradle to the Grave D. Dowson, G. Dalmaz, P.R.N. Childs, C.M. Taylor, M. Godet, 1992-08-04 The Leeds

Lyon symposia have well established themselves in the tribological calendar Industrial progress requires a better understanding of interfacial phenomena than now exists and it is exciting to see that the topics addressed in these proceedings volumes are at the forefront of progress in tribological research These proceedings contain 61 papers written by authors from all over the world covering the entire spectrum of wear particles Of particular interest is the detailed consideration of a wide range of particle formations and detachments as well as a close look at the physics and chemistry of the wear of mechanisms together with other in depth state of the art analytical contributions **Energy Research** Laser and Ion Beam Modification of Materials I. Yamada, H. Ishiwara, E. Kamijo, 2013-10-22 Laser and Abstracts ,1990 Ion Beam Modification of Materials is a compilation of materials from the proceedings of the symposium U Material Synthesis and Modification by Ion beams and Laser Beams This collection discusses the founding of the KANSAI Science City in Japan and the structures equipment and research projects of two institutions are discussed pertaining to eV MeV ion beams A description of ion beams as used in materials research and in manufacturing processes along with trends in ion implantation technology in semiconductors is discussed Research into ion beams by China and its industrial uses in non semiconductor area is noted For industrial applications developing technology in terms of high speed large surface modifications and use of high doses is important Thus the development of different ion beam approaches is examined Industrial applications of ion and laser processing are discussed as cluster beams are used in solid state physics and chemistry Mention is made on a high power discharge pumped solid state physics ArF excimer laser as a potential light source for better material processing Under ion beam material processing is nanofabrication using focused ion beams important for research work in mesoscopic systems Progress in the use of ion beam mixing using kinetic energy of ion beams to mingle with pre deposited surface layers of substrate materials has shown promise Advanced materials researchers and scientists as well as academicians in the field of nuclear physics will find this collection helpful

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