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98/1 Reactive Sputtering

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Handbook Of Thin Film Process Technology

David A Glocker



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contamination water drops what is removed drying e.g. the Marangoni effect and the surface of the substrate before deposition composition morphology hydrophilic hydrophobic

Handbook of Thin-film Deposition Processes and Techniques Klaus K. Schuegraf, 1988 The most recent developments and techniques in thin film deposition for high technology applications are described by 23 authorities in the field

Reactive Sputter Deposition Diederik Depla, Stijn Mahieu, 2008-06-24 The most straightforward method to change the surface properties of a material is to deposit a thin film or coating on it Hence it is not surprising that an overwhelming amount of scientific and technical papers is published each year on this topic Sputter deposition is one of the many so called physical vapour deposition PVD techniques In most cases sputter deposition uses a magnetically enhanced glow discharge or magnetron discharge to produce the ions which bombard and sputter the cathode material In the first chapter of this book Chap 1 the details of the sputter process are discussed Essential to sustain the discharge is the electron emission during ion bombardment Indeed the emitted electrons are accelerated from the target and can ionize gas atoms The formed ions bombard again the target completing the sustaining process A complete chapter is assigned to this process to highlight its importance Chap 2 Although the sustaining process can be described quite straightforward a complete understanding of the magnetron discharge and the influence of different parameters on the discharge characteristics is only possible by modelling see Chap 3 With these three chapters the reader should be able to form an idea of the target and plasma processes occurring during a DC magnetron discharge

Handbook of Thin Film Deposition Techniques Principles, Methods, Equipment and Applications, Second Edition Krishna Seshan, 2002-02-01 The Handbook of Thin Film Deposition Techniques Principles Methods Equipment and Applications Second Edition explores the technology behind the spectacular growth in the silicon semiconductor industry and the continued trend in miniaturization over the last 20 years This growth has been fueled in large part by improved thin film deposition technology

Handbook of Physical Vapor Deposition (PVD) Processing D. M. Mattox, 2014-09-19 This book covers all aspects of physical vapor deposition PVD process technology from the characterizing and preparing the substrate material through deposition processing and film characterization to post deposition processing The emphasis of the book is on the aspects of the process flow that are critical to economical deposition of films that can meet the required performance specifications The book covers subjects seldom treated in the literature substrate characterization adhesion cleaning and the processing The book also covers the widely discussed subjects of vacuum technology and the fundamentals of individual deposition processes However the author uniquely relates these topics to the practical issues that arise in PVD processing such as contamination control and film growth effects which are also rarely discussed in the literature In bringing these subjects together in one book the reader can understand the interrelationship between various aspects of the film deposition processing and the resulting film properties The author draws upon his long experience with developing PVD processes and troubleshooting the processes in the manufacturing environment to provide useful hints for not only avoiding problems but also for solving

problems when they arise He uses actual experiences called war stories to emphasize certain points Special formatting of the text allows a reader who is already knowledgeable in the subject to scan through a section and find discussions that are of particular interest The author has tried to make the subject index as useful as possible so that the reader can rapidly go to sections of particular interest Extensive references allow the reader to pursue subjects in greater detail if desired The book is intended to be both an introduction for those who are new to the field and a valuable resource to those already in the field The discussion of transferring technology between R D and manufacturing provided in Appendix 1 will be of special interest to the manager or engineer responsible for moving a PVD product and process from R D into production Appendix 2 has an extensive listing of periodical publications and professional societies that relate to PVD processing The extensive Glossary of Terms and Acronyms provided in Appendix 3 will be of particular use to students and to those not fully conversant with the terminology of PVD processing or with the English language

Thin Film Processes II Werner Kern, 2012-12-02 This sequel to the 1978 classic *Thin Film Processes* gives a clear practical exposition of important thin film deposition and etching processes that have not yet been adequately reviewed It discusses selected processes in tutorial overviews with implementation guide lines and an introduction to the literature Though edited to stand alone when taken together *Thin Film Processes II* and its predecessor present a thorough grounding in modern thin film techniques Provides an all new sequel to the 1978 classic *Thin Film Processes* Introduces new topics and several key topics presented in the original volume are updated Emphasizes practical applications of major thin film deposition and etching processes Helps readers find the appropriate technology for a particular application

Handbook of Thin Film Deposition: Processes and Technologies Klaus K. Schuegraf, 2002 A book on deposition for engineers technicians and plant personnel in the semiconductor industry It traces the technology behind the growth in the silicon semiconductor industry and the trend in miniaturization It explains the growth of automatic tools capable of measuring thickness and spacing of sub micron dimensions

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

Electrochemical Engineering Across Scales Richard C. Alkire, Philip N. Bartlett, Jacek Lipkowski, 2015-06-29 In Volume XV in the series *Advances in Electrochemical Science and Engineering* various leading experts from the field of electrochemical

engineering share their insights into how different experimental and computational methods are used in transferring molecular scale discoveries into processes and products Throughout the focus is on the engineering problem and method of solution rather than on the specific application such that scientists from different backgrounds will benefit from the flow of ideas between the various subdisciplines A must read for anyone developing engineering tools for the next generation design and control of electrochemical process technologies including chemical mechanical and electrical engineers as well as chemists physicists biochemists and materials scientists

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