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## Plasma Deposited Thin Films

Edited by J. Mort, F. Jansen



# **Plasma Deposited Thin Films**

JVR Heberlein, WD. Partlow

### **Plasma Deposited Thin Films:**

Plasma Deposited Thin Films Mort,2018-05-04 In Summary the objective of this book is to present in one volume a review of the plasma deposition process and the present understanding of the most important and widely used plasma deposited thin film materials devices and their applications Plasma Deposited Thin Films Mort,2017-12-13 In Summary the objective of this book is to present in one volume a review of the plasma deposition process and the present understanding of the most important and widely used plasma deposited thin film materials devices and their applications

Plasma Deposited Thin Films J. Mort, F. Jansen, 2018-05-04 In Summary the objective of this book is to present in one volume a review of the plasma deposition process and the present understanding of the most important and widely used plasma deposited thin film materials devices and their applications A Study of Reactive Plasma Deposited Thin Films .1986 Film Deposition by Plasma Techniques Mitsuharu Konuma, 2012-12-06 Properties of thin films depend strongly upon the deposition technique and conditions chosen In order to achieve the desired film optimum deposition conditions have to be found by carrying out experiments in a trial and error fashion with varying parameters The data obtained on one growth apparatus are often not transferable to another This is especially true for film deposition processes using a cold plasma because of our poor under standing of the mechanisms Relatively precise studies have been carried out on the role that physical effects play in film formation such as sputter deposition However there are many open questions regarding processes that involve chemical reactions for example reactive sputter deposition or plasma enhanced chemical vapor deposition Much further research is required in order to understand the fundamental deposition processes A sys tematic collection of basic data some of which may be readily available in other branches of science for example reaction cross sections for gases with energetic electrons is also required The need for pfasma deposition techniques is felt strongly in industrial applications because these techniques are superior to traditional thin film deposition techniques in many ways In fact plasma deposition techniques have developed rapidly in the semiconductor and electronics industries Fields of possible application are still expanding A reliable plasma reactor with an adequate in situ system for monitoring the deposition conditions and film properties must be developed to improve reproducibility and pro ductivity at the industrial level

Plasma Deposited Inorganic Thin Films for Optical Applications JVR Heberlein, WD. Partlow, 1985 Plasma deposited thin films widely used in semiconductor processing have begun to be used in optical applications such as anti reflective coatings and optical waveguides Amorphous films of refractory materials such as SiO2 SiC and Si3N4 have been applied with high optical perfection on substrates at 200 300 C with this process Control of index of refraction has been achieved by selecting appropriate deposition parameters Plasma Deposition, Treatment, and Etching of Polymers Riccardo d'Agostino, 2012-12-02 Plasma Deposition Treatment and Etching of Polymers takes a broad look at the basic principles the chemical processes and the diagnostic procedures in the interaction of plasmas with polymer surfaces This

recent technology has yielded a large class of new materials offering many applications including their use as coatings for chemical fibers and films Additional applications include uses for the passivation of metals the surface hardening of tools increased biocompatibility of biomedical materials chemical and physical sensors and a variety of micro and optoelectronic devices Appeals to a broad range of industries from microelectronics to space technology Discusses a wide array of new uses for plasma polymers Provides a tutorial introduction to the field Surveys various classes of plasma polymers their chemical and morphological properties effects of plasma process parameters on the growth and structure of these synthetic materials and techniques for characterization Interests scientists engineers and students alike Plasma Sources for Thin Film **Deposition and Etching** Maurice H. Francombe, John L. Vossen, 1994-08-18 Steinbr chel Christoph The formation of particles in thin film processing plasmas Thin Film Processes John L. Vossen, 2012-12-02 Remarkable advances have been made in recent years in the science and technology of thin film processes for deposition and etching It is the purpose of this book to bring together tutorial reviews of selected filmdeposition and etching processes from a process viewpoint Emphasis is placed on the practical use of the processes to provide working guidelines for their implementation a guide to the literature and an overview of each process Plasma Sources for Thin Film Deposition and Etching Maurice H. Francombe, 1994-08-18 This latest volume of the well known Physics of Thin Films Series includes four chapters that discuss high density plasma sources for materials processing electron cyclotron resonance and its uses unbalancedmagnetron sputtering and particle formation in thin film processing plasma **Mechanics Of Thin Film Coatings, The -**Proceedings Of The First European Coating Symposium Philip H Gaskell, Mike D Savage, Ionathon L Summers, 1996-05-04 This volume contains three keynote presentations given by experts in the field of experimental methods rheology and the modeling of coating dies Included also are 40 contributions drawn from the following areas of coating research and application instability and coating defects surface treatment spreading and leveling experimental investigations surface tension and gravity driven flows roll and gravure coating rheological effects in coating processes As such these proceedings should prove a valuable resource for both researchers and coating practitioners Plasma Techniques for Film Deposition Mitsuharu Konuma, 2005 Plasma Techniques for Film Deposition describes the technology and applications of cold plasma for thin film deposition The plasma is generated under low pressure and characterized by a non thermal equilibrium. An attempt has been made to not only provide an introductory text but also to present the latest techniques and recent results Fundamentals of plasma science such as its characterization chemical and physical reactions in plasmas basic techniques to generate and to diagnose plasmas Techniques for generating high density plasmas are outlined like the conventional electrical and magnetic methods and the modern schemes for inductively coupled and helicon wave plasmas Plasma diagnostic methods such as optical spectroscopy electrical probes mass and energy analysis of excited molecules and ions in plasma Specific techniques are treated for thin film formation sputter deposition ion plating plasma enhanced

chemical vapor deposition and plasma surface modification Films like amorphous nano and micro crystalline silicon polymorphs of carbon i e amorphous phase diamond fullerenes and nanotubes boron and carbon nitrides can be deposited

Plasma Deposition of Silicon Carbide Thin Films W. D. Partlow, W. J. Choyke, John T Yates (Jr), L. E. Kline, M. J. Bozack, WESTINGHOUSE RESEARCH AND DEVELOPMENT CENTER PITTSBURGH PA., 1985 During this reporting period we completed the adaptation of experimental equipment required for three related areas of the research program understanding plasma deposition chemistry and physics characterization of plasma deposited thin films and surface chemistry of elemental deposition processes In the plasma studies area extensive experiments were conducted on methane plasmas and experiments were begun on methane silane plasmas We achieved significant anisotropy in the deposition chemistry by controlling electrode bias and the data are being compared to a theoretical model produced in a collaborative effort by L E Kline at Westinghouse R D Center We have selected characterization techniques for the thin films produced with these plasmas and measurements have begun The UHV apparatus for surface chemistry was acquired assembled and tested and initial measurements of the desorption of organic gases were completed **Laser Induced Damage in Optical Materials, 1983**, 1985 Laser Induced Damage in Optical Materials: 1983 Harold Earl Bennett, 1985 Laser Induced Damages in Optical Materials: 1983, Optical Characterization of Low-Scatter, Energy Update ,1982 Plasma-Deposited Thin Films IM. Bennett, WI. Choyke, WD. Partlow, RM. Silva, 1985 Plasma deposited thin films sometimes called plasma CVD or plasma enhanced CVD are deposited in a low pressure gas phase reaction that is controlled by a glow discharge plasma Substrate temperatures of 200 300 C low compared to conventional CVD processes are typical for plasma coating processes This new coating method has wide possible applications in the optics area In this paper we will describe studies that have been made to determine if the films are suitable for critical optical applications requiring highly uniform low scatter films that for example could be used as mirror coatings or as graded index antireflection coatings We have evaluated the surface quality of SiO2 and Si3N4 films approximately 1000 thick plasma deposited onto silicon and silicon carbide substrates Evaluation techniques have included surface profiling using a Talystep instrument Nomarski microscopy and total integrated scattering In all cases comparisons have been made between the coated and uncoated substrates The best Si3N4 films have been found to contour the very smooth surfaces onto which they were deposited while the SiO2 films added only a minimal additional roughness of the order of 2 8 rms Some problems have been encountered however with particulates contained in the films techniques for minimizing these effects will be discussed **Proceedings of the** Symposium on Polymeric Materials for Electronic Packaging and High Technology Applications John R. Susko, Randy W. Snyder, Robin A. Susko, 1988 Scientific and Technical Aerospace Reports ,1989

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