A User's Guide to ELLIPSOMETRY

Harland G. Tompkins

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A User's Guide to Ellipsometry Harland G. Tompkins, 2012-12-02 This book is specifically designed for the user who wishes expanded use of ellipsometry beyond the relatively limited number of turn key applications. The book provides a concise discussion of theory and instrumentation before describing how to use optical parameters to determine material properties and optical parameters for inaccessible substrates and unknown films and how to measure extremely thin films The book also addresses polysilicon a material commonly used in the microelectronics industry and the effect of substrate roughness This book s concepts and applications are reinforced through the 14 case studies that illustrate specific applications of ellipsometry from the semiconductor industry as well as studies involving corrosion and oxide growth Allows the user to optimize turn key operation of ellipsometers and move beyond limited turn key applications Provides comprehensive discussion of the measurement of film thickness and optical constants in film Discusses the trajectories of the ellipsometric parameters Del and Psi and how changes in the materials affect the parameter Includes 14 case studies to reinforce specific applications Includes three appendices for helpful references A User's Guide to Ellipsometry Harland G. Tompkins, 2013-03-21 This text on optics for graduate students explains how to determine material properties and parameters for inaccessible substrates and unknown films as well as how to measure extremely thin films Its 14 case studies illustrate concepts and reinforce applications of ellipsometry particularly in relation to the semiconductor industry and to studies involving corrosion and oxide growth A User's Guide to Ellipsometry will enable readers to move beyond limited turn key applications of ellipsometers In addition to its comprehensive discussions of the measurement of film thickness and optical constants in film it also considers the trajectories of the ellipsometric parameters Del and Psi and how changes in materials affect parameters. This volume also addresses the use of polysilicon a material commonly employed in the microelectronics industry and the effects of substrate roughness Three appendices provide helpful references

Spectroscopic Ellipsometry and Reflectometry Harland G. Tompkins, William A. McGahan, 1999-03-18 While single wave ellipsometry has been around for years spectroscopic ellipsometry is fast becoming the method of choice for measuring the thickness and optical properties of thin films This book provides the first practical introduction to spectroscopic ellipsometry and the related techniques of reflectometry A guide for practitioners and researchers in a variety of disciplines it addresses a broad range of applications in physics chemistry electrical engineering and materials science Spectroscopic Ellipsometry Harland G. Tompkins, James N. Hilfiker, 2015-12-16 Ellipsometry is an experimental technique for determining the thickness and optical properties of thin films It is ideally suited for films ranging in thickness from sub nanometer to several microns Spectroscopic measurements have greatly expanded the capabilities of this technique and introduced its use into all areas where thin films are found semiconductor devices flat panel and mobile displays optical coating stacks biological and medical coatings protective layers and more While several scholarly books exist on the topic this book provides a good introduction to

the basic theory of the technique and its common applications. The target audience is not the ellipsometry scholar but process engineers and students of materials science who are experts in their own fields and wish to use ellipsometry to measure thin film properties without becoming an expert in ellipsometry itself Smart Materials and Structures G.R Tomlinson, W.A. Bullough, 1998-01-01 Significant changes have occurred in materials science including increasing demands on life extensions and the reliability and exploitability of components materials and structures These changes provide smart technologies with excellent application opportunities in aerospace civil and electrical engineering transportation manufacturing communications defense and medicine Smart Materials and Structures presents an overview of current developments in the characterization and applications of materials and actuators issues surrounding their control and the integration of smart systems and technologies This compendium provides a valuable synopsis of this rapidly expanding and topical research field for engineers program managers technologists physicists materials scientists and mathematicians working to advance smart materials research methods their applications and robotic technologies **Proceedings of the 2015 Joint Workshop of** Fraunhofer IOSB and Institute for Anthropomatics, Vision and Fusion Laboratory Beyerer, Juergen, Pak, Proceedings of the 2014 Joint Workshop of Fraunhofer IOSB and Institute for **Anthropomatics, Vision and Fusion Laboratory** Beyerer, Juergen, Pak, Alexey, 2015-07-29 **Handbook of Photomask** Manufacturing Technology Syed Rizvi, 2018-10-03 As the semiconductor industry attempts to increase the number of functions that will fit into the smallest space on a chip it becomes increasingly important for new technologies to keep apace with these demands Photomask technology is one of the key areas to achieving this goal Although brief overviews of photomask technology exist in the literature the Handbook of Photomask Manufacturing Technology is the first in depth comprehensive treatment of existing and emerging photomask technologies available The Handbook of Photomask Manufacturing Technology features contributions from 40 internationally prominent authors from industry academia government national labs and consortia These authors discuss conventional masks and their supporting technologies as well as next generation non optical technologies such as extreme ultraviolet electron projection ion projection and x ray lithography The book begins with an overview of the history of photomask development It then demonstrates the steps involved in designing producing testing inspecting and repairing photomasks following the sequences observed in actual production The text also includes sections on materials used as well as modeling and simulation Continued refinements in the photomask making process have ushered in the sub wavelength era in nanolithography This invaluable handbook synthesizes these refinements and provides the tools and possibilities necessary to reach the next generation of microfabrication **Epioptics-8 - Proceedings Of The 33rd Course Of The International School Of Solid State Physics** technologies Antonio Cricenti, 2006-03-20 This volume contains the proceedings of the 8th Epioptics Workshop held at the Ettore Majorana Foundation and Centre for Scientific Culture Erice Sicily The book assesses the capabilities of state of the art optical

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