Electronic Thin Film Reliability

Thin Film Materials, Processes, and ReliabilityElectronic Thin-Film ReliabilityThe Mechanics and Reliability of Films, Multilayers and CoatingsMicro- and Opto-Electronic Materials and Structures: Physics, Mechanics, Design, Reliability, PackagingProceedings of the International Symposium on Thin Film Materials, Processes, Reliability, and Applications, Thin Film ProcessesReliability Abstracts and Technical ReviewsStudy on the Reliability of Gap-Type Thin Film Transistors Under Low IlluminationThin Film Materials, Processes, and ReliabilityEnergy Research AbstractsScientific and Technical Aerospace ReportsSolar Energy UpdateThin-Film Transistor ReliabilityReliability Study of Poly-Si Thin-film TransistorsElectromigration in Thin Films and Electronic DevicesMaterials Reliability in Microelectronics VII: Volume 473Characterization and Reliability Testing of Thin-Film Materials for Robust MEMS SensorsMaterials, Technology, and Reliability for Advanced Interconnects and Low-k DielectricsReliability Physics 1973Review of Progress in Quantitative Nondestructive EvaluationThe Physical Review G. S. Mathad King-Ning Tu Matthew R. Begley Ephraim Suhir G. S. Mathad Electrochemical Society. Meeting Meng Zhang, Mingxiang Wang □□□ (□□□□) Choong-Un Kim J. Joseph Clement Radoslav Rusanov Donald O. Thompson

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Materials Reliability in Microelectronics VII: Volume 473 Characterization and Reliability Testing of Thin-Film Materials for Robust MEMS Sensors Materials, Technology, and Reliability for Advanced Interconnects and Low-k Dielectrics Reliability Physics 1973 Review of Progress in Quantitative Nondestructive Evaluation The Physical Review *G. S. Mathad King-Ning Tu Matthew R. Begley Ephraim Suhir G. S. Mathad Electrochemical Society. Meeting Meng Zhang, Mingxiang Wang* □□□ (□□□□) *Choong-Un Kim J. Joseph Clement Radoslav Rusanov Donald O. Thompson*

the symposium covered three topics i plasma processing for

thin films are widely used in the electronic device industry as the trend for miniaturization of electronic devices moves into the nanoscale domain the reliability of thin films becomes an increasing concern building on the author s previous book electronic thin film science by tu mayer and feldman and based on a graduate course at ucla given by the author this new book focuses on reliability science and the processing of thin films early chapters address fundamental topics in thin film processes and reliability including deposition surface energy and atomic diffusion before moving onto systematically explain irreversible processes in interconnect and packaging technologies describing electromigration thermomigration and stress migration with a closing chapter dedicated to failure analysis the reader will come away with a complete theoretical and practical understanding of electronic thin film reliability kept mathematically simple with real world examples this book is ideal for graduate students researchers and practitioners

a comprehensive treatment of the mechanics of multilayers and its implications for reliability with easy to use software to compute key results

this handbook provides the most comprehensive up to date and easy to apply information on the physics mechanics reliability and packaging of micro and opto electronic materials it details their assemblies structures and systems and each chapter contains a summary of the state of the art in a particular field the book provides practical recommendations on how to apply current knowledge and technology to design and manufacture it further

describes how to operate a viable reliable and cost effective electronic component or photonic device and how to make such a device into a successful commercial product

thin film transistor reliability provides a comprehensive analysis of the reliability challenges in thin film transistors tfts essential components in modern electronics covering topics from fundamental structures to degradation mechanisms this book equips researchers and engineers with the tools to assess analyze and improve tft reliability the book systematically explores key reliability concerns including performance characterization defect states voltage stress effects circuit level degradation and environmental influences advanced reliability analysis methods and practical improvement strategies are also discussed offering insights into future developments key features in depth discussion of tft degradation mechanisms and reliability concerns comprehensive analysis techniques including transfer curve and noise analysis effects of dc ac voltage stress self heating and environmental factors strategies for enhancing tft reliability through structural modifications

the inexorable drive for increased integrated circuit functionality and performance places growing demands on the metal and dielectric thin films used in fabricating these circuits as well as spurring demand for new materials applications and processes this book directly addresses issues of widespread concern in the microelectronics industry smaller feature sizes new materials and new applications that challenge the reliability of new technologies while the book continues the focus on issues related to interconnect reliability such as electromigration and stress particular emphasis is placed on the effects of microstructure an underlying theme is understanding the importance of interactions among different materials and associated interfaces comprising a single structure with dimensions near or below the micrometer scale topics include adhesion and fracture gate oxide growth and oxide interfaces surface preparation and gate oxide reliability oxide degradation and defects micro structure texture and reliability novel measurement techniques interconnect performance and reliability modeling electromigration and interconnect reliability and stress and stress relaxation

all papers were peer reviewed these proceedings provide the latest research and

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