SECOND EDITION

Semiconductor Manufacturing HANDBOOK



HWAIYU GENG

Hong Xiao

Handbook of Semiconductor Manufacturing Technology Yoshio Nishi, Robert Doering, 2017-12-19 Retaining the comprehensive and in depth approach that cemented the bestselling first edition s place as a standard reference in the field the Handbook of Semiconductor Manufacturing Technology Second Edition features new and updated material that keeps it at the vanguard of today s most dynamic and rapidly growing field Iconic experts Robert Doering and Yoshio Nishi have again assembled a team of the world's leading specialists in every area of semiconductor manufacturing to provide the most reliable authoritative and industry leading information available Stay Current with the Latest Technologies In addition to updates to nearly every existing chapter this edition features five entirely new contributions on Silicon on insulator SOI materials and devices Supercritical CO2 in semiconductor cleaning Low dielectrics Atomic layer deposition Damascene copper electroplating Effects of terrestrial radiation on integrated circuits ICs Reflecting rapid progress in many areas several chapters were heavily revised and updated and in some cases rewritten to reflect rapid advances in such areas as interconnect technologies gate dielectrics photomask fabrication IC packaging and 300 mm wafer fabrication While no book can be up to the minute with the advances in the semiconductor field the Handbook of Semiconductor Manufacturing Technology keeps the most important data methods tools and techniques close at hand **Handbook of Semiconductor** Manufacturing Technology Robert Doering, Yoshio Nishi, 2008 Semiconductor Manufacturing Handbook Hwaiyu Geng, 2005-05-18 WORLD CLASS SEMICONDUCTOR MANUFACTURING EXPERTISE AT YOUR FINGERTIPS This is a comprehensive reference to the semiconductor manufacturing process and ancillary facilities from raw material preparation to packaging and testing applying basics to emerging technologies Readers charged with optimizing the design and performance of manufacturing processes will find all the information necessary to produce the highest quality chips at the lowest price in the shortest time possible The Semiconductor Manufacturing Handbook provides leading edge information on semiconductor wafer processes MEMS nanotechnology and FPD plus the latest manufacturing and automation technologies including Yield Management Automated Material Handling System Fab and Cleanroom Design and Operation Gas Abatement and Waste Treatment Management And much more Written by 60 international experts and peer reviewed by a seasoned advisory board this handbook covers the fundamentals of relevant technology and its real life application and operational considerations for planning implementing and controlling manufacturing processes It includes hundreds of detailed illustrations and a list of relevant books technical papers and websites for further research This inclusive wide ranging coverage makes the Semiconductor Manufacturing Handbook the most comprehensive single volume reference ever published in the field STATE OF THE ART SEMICONDUCTOR TECHNOLOGIES AND MANUFACTURING PROCESSES SEMICONDUCTOR FUNDAMENTALS How Chips Are Designed and Made Substrates Copper and Low k Dielectrics Silicide Formation Plasma Vacuum Photomask WAFER PROCESSING TECHNOLOGIES Microlithography Ion Implantation Etch PVD

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circuits Epitaxi anneals RTP and oxidation Microlithography etching and ion implantations Physical chemical electrochemical and atomic layer vapor deposition Chemical mechanical planarization Atomic force metrology Packaging bonding and interconnects Flexible hybrid electronics Flat panel flexible display electronics and photovoltaics Gas distribution systems Ultrapure water and filtration Process chemicals handling and abatement Chemical and slurry handling systems Yield management CIM and factory automation Manufacturing execution systems Advanced process control Airborne molecular contamination ESD controls in clean room environments Vacuum systems and RF plasma systems IC manufacturing parts cleaning technology Vibration and noise design And much more Introduction to Semiconductor Manufacturing Technology (International Edition) Hong Xiao, Hong Xiao Staff, 2000-12-01 **Handbook Of Semiconductor** Manufacturing Technology Y. Nishi, 2000 Manufacturing Engineering Handbook, Second Edition Hwaiyu Geng, 2015-10-22 The new edition of this professional resource reveals how to optimize all aspects of the global manufacturing process to build the highest quality goods at the lowest price in the shortest possible time How can one apply technical and business knowledge to develop a strategic plan that delivers increased productivity quality sustainability reliability agility resilience and best practices with rapid time to production and value The answers are found in the fully updated new edition of Manufacturing Engineering Handbook The goal of this second edition is to provide the essential knowledge needed to build products with the highest quality at the lowest cost in the least amount of time by optimizing all aspects of the manufacturing process design development tools processes quality speed output safety and sustainability You will gain access to information on conventional and modern technologies manufacturing processes and operations management that will assist you in achieving these goals The book is written by a team of more than 100 internationally renowned manufacturing engineering experts and pared down from its original 1200 pages The new and vastly improved second edition is specifically designed to concisely and succinctly cover traditional manufacturing processes and advanced technologies as well as newer manufacturing software and systems to integrate them into the modern global manufacturing world Brand new chapters on eco design and sustainability nano materials and nano manufacturing facilities planning operations research New sections on plastics composites and moldmaking global manufacturing and supply chain management Increased coverage of Design for Six Sigma and adaptive manufacturing Affiliated web site with color illustrations graphs charts discussions on future trends additional technical papers and suggestions for further reading

Micro and Nano Fabrication Hans H. Gatzen, Volker Saile, Jürg Leuthold, 2015-01-02 For Microelectromechanical Systems MEMS and Nanoelectromechanical Systems NEMS production each product requires a unique process technology This book provides a comprehensive insight into the tools necessary for fabricating MEMS NEMS and the process technologies applied Besides it describes enabling technologies which are necessary for a successful production i e wafer planarization and bonding as well as contamination control

Semiconductor Manufacturing Technology Chue San Yoo, 2008-03-03 This

textbook contains all the materials that an engineer needs to know to start a career in the semiconductor industry It also provides readers with essential background information for semiconductor research It is written by a professional who has been working in the field for over two decades and teaching the material to university students for the past 15 years It includes process knowledge from raw material preparation to the passivation of chips in a modular format Nitride, Silicon Dioxide, and Emerging Dielectrics 9 R. Ekwal Sah, 2007 This issue of ECS Transactions contains the papers presented in the symposium on Silicon Nitride Silicon Dioxide Thin Insulating Films and Emerging Dielectics held May 6 11 2007 in Chicago Papers were presented on deposition characterization and applications of the dielectrics including high and low k dielectrics as well as interface states device characterization reliability and modeling Manufacturing Handbook, Second Edition Hwaiyu Geng, 2017 Thoroughly revised state of the art semiconductor design manufacturing and operations information Written by 70 international experts and reviewed by a seasoned technical advisory board this fully updated resource clearly explains the cutting edge processes used in the design and fabrication of IC chips Reliability of high-k / metal gate field-effect transistors considering circuit MEMS sensors and other electronic devices operational constraints Steve Kupke, 2016-06-06 After many decades the scaling of silicon dioxide based field effect transistors has reached insurmountable physical limits due unintentional high gate leakage currents for gate oxide thicknesses below 2 nm The introduction of high k metal gate stacks guaranteed the trend towards smaller transistor dimensions The implementation of HfO2 as high k dielectric also lead to a substantial number of manufacturing and reliability challenges The deterioration of the gate oxide properties under thermal and electric stress jeopardizes the circuit operation and hence needs to be comprehensively understood As a starting point 6T static random access memory cells were used to identify the different single device operating conditions. The strongest deterioration of the gate stack was found for nMOS devices under positive bias temperature instability PBTI stress resulting in a severe threshold voltage shift and increased gate leakage current A detailed investigation of physical origin and temperature and voltage dependency was done The reliability issues were caused by the electron trapping into already existing HfO2 oxygen vacancies The oxygen vacancies reside in different charge states depending on applied stress voltages. This in return also resulted in a strong threshold voltage and gate current relaxation after stress was cut off The reliability assessment using constant voltage stress does not reflect realistic circuit operation which can result in a changed degradation behaviour Therefore the constant voltage stress measurement were extended by considering CMOS operational constraints where it was found that the supply voltage frequently switches between the gate and drain terminal The additional drain off state bias lead to an increased Vt relaxation in comparison to zero bias voltage The off state influence strongly depended on the gate length and became significant for short channel devices The influence of the off state bias on the dielectric breakdown was studied and compared to the standard assessment methods Different wear out mechanisms for drain only and alternating gate and drain

stress were verified Under drain only stress the dielectric breakdown was caused by hot carrier degradation. The lifetime was correlated with the device length and amount of subthreshold leakage The gate oxide breakdown under alternating gate and o state stress was caused by the continuous trapping and detrapping behaviour of high k metal gate devices Production Scheduling Jeffrey W. Herrmann, 2006-08-18 Handbook of Production Scheduling concentrates on real world production scheduling in factories and industrial settings It includes industry case studies that use innovative techniques as well as academic research results that can be used to improve real world production scheduling Its purpose is to present scheduling principles advanced tools and examples of innovative scheduling systems to persons who could use this information to improve production scheduling in their own organization The intended audience includes production and plant managers industrial engineers operations research practitioners advanced undergraduate graduate students and faculty studying and doing research in operations research and industrial engineering **Introduction to Semiconductor** Manufacturing Technology Hong Xiao, 2012 Integrated circuit fabrication is a complex process and engineers must have a deep understanding of the intricate technologies involved in order to be successful This book intended for technical and college students provides an overview of key concepts equipment and techniques used in fabs today A history of the field is included as context for modern practictioners. The second edition covers advancements made in the past decade and adds Semiconductor Manufacturing Technology, 1996 Resources in Education ,1998 new illustrations Microelectronic Packaging Yan Li, Deepak Goyal, 2020-11-23 This book offers a comprehensive reference guide for graduate students and professionals in both academia and industry covering the fundamentals architecture processing details and applications of 3D microelectronic packaging It provides readers an in depth understanding of the latest research and development findings regarding this key industry trend including TSV die processing micro bumps for LMI and MMI direct bonding and advanced materials as well as guality reliability fault isolation and failure analysis for 3D microelectronic packages Images tables and didactic schematics are used to illustrate and elaborate on the concepts discussed Readers will gain a general grasp of 3D packaging quality and reliability concerns and common causes of failure and will be introduced to developing areas and remaining gaps in 3D packaging that can help inspire future research and development Advances in Resist Technology and Processing XXI, 2004 Fabrication, Characterization and Reaction Studies of Nanofabricated Platinum Model Catalysts Ji Zhu, 2003

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