

Handbook Of Low And High Dielectric Constant Materials And Their Applications

Handbook of Low and High Dielectric Constant Materials and Their Applications, Two-Volume Set
High Dielectric Constant Materials
Low Dielectric Constant Materials for IC Applications
Low and High Dielectric Constant Materials
Handbook of Low and High Dielectric Constant Materials and Their Applications: Materials and processing
Handbook of Low and High Dielectric Constant Materials and Their Applications: Materials and processing
Low Dielectric Constant Materials for IC Applications
Dielectric Materials and Applications
Low-dielectric Constant Materials
Materials for Electrical Insulating and Dielectric Functions
Low-dielectric-constant Materials
Low-Dielectric Constant Materials V: Volume 565
Low and High Dielectric Constant Materials
Soft Magnetic Materials
Handbook of Low and High Dielectric Constant Materials and Their Applications: Phenomena, properties, and applications
Materials Science in Microelectronics: The effects of structure on property in thin films
High-Performance Ceramics 2001
Frontiers of Mechanical Engineering and Materials Engineering III
A.S.T.M. Standards on Electrical Insulating Materials
Materials, Technology, and Reliability for Advanced Interconnects and Low-k Dielectrics
Hari Singh Nalwa Howard Huff Paul S. Ho Mark J. Lododa Hari Singh Nalwa Hari Singh Nalwa Paul S. Ho Arthur R. Von Hippel Harry L. Saums Wei William Lee John Hummel Rajendra Singh Tian Biao Zhang Hari Singh Nalwa E. S. Machlin Jianghong Gong Wen Pei Sung
ASTM Committee D-9 on Electrical Insulating Materials
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recent developments in microelectronics technologies have created a great demand for interlayer dielectric materials with a very low dielectric constant they will play a crucial role in the future generation of ic devices vlsi uisi and high speed ic packaging considerable efforts have been made to

develop new low as well as high dielectric constant materials for applications in electronics industries besides achieving either low or high dielectric constants other materials properties such as good processability high mechanical strength high thermal and environmental stability low thermal expansion low current leakage low moisture absorption corrosion resistant etc are of equal importance many chemical and physical strategies have been employed to get desired dielectric materials with high performance this is a rapidly growing field of science both in novel materials and their applications to future packing technologies the experimental data on inorganic and organic materials having low or high dielectric constant remain scattered in the literature it is timely therefore to consolidate the current knowledge on low and high dielectric constant materials into a single reference source handbook of low and high dielectric constant materials and their applications is aimed at bringing together under a single cover in two volumes all low and high dielectric constant materials currently studied in academic and industrial research covering all aspects of inorganic and organic materials from their synthetic chemistry processing techniques physics structure property relationship to applications in ic devices this book will summarize the current status of the field covering important scientific developments made over the past decade with contributions from internationally recognized experts from all over the world fully cross referenced this book has clear precise and wide appeal as an essential reference source for all those interested in low and high dielectric constant material

issues relating to the high k gate dielectric are among the greatest challenges for the evolving international technology roadmap for semiconductors its more than just an historical overview this book will assess previous and present approaches related to scaling the gate dielectric and their impact along with the creative directions and forthcoming challenges that will define the future of gate dielectric scaling technology topics include an extensive review of moore's law the classical regime for SiO_2 gate dielectrics the transition to silicon oxynitride gate dielectrics the transition to high k gate dielectrics including the drive towards equivalent oxide thickness in the single digit nanometer regime and future directions and issues for ultimate technology generation scaling the vision wisdom and experience of the team of authors will make this book a timely relevant and interesting resource focusing on fundamentals of the 45 nm technology generation and beyond

low dielectric constant materials are an important component of microelectronic devices this comprehensive book covers the latest low dielectric constant low k materials technology thin film materials characterization integration and reliability for back end interconnects and packaging applications in microelectronics highly informative contributions from leading academic and industrial laboratories provide comprehensive information about materials technologies for

contains papers from a may 2000 symposium representing the state of the art in areas of dielectric materials science and process integration papers are arranged in sections on low and high dielectric constant materials covering topics such as ammonia plasma passivation effects on properties of post cmp low k hsq characterization of ashing effects on low k dielectric films and electron beam curing of thin film polymer dielectrics other subjects include characterization of high k dielectrics using the non contact surface charge profiler method and processing effects and electrical evaluation of ZrO_2 formed by rtp oxidation of Zr loboda is affiliated with dow corning corporation c book news inc

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interest in developing low dielectric constant materials is driven by requirements from the microelectronics sector to improve performance in interconnections by reducing parasitic capacitance and cross talk the continuing increase in density of semiconductor devices is becoming limited by the dielectric properties of the insulator which threatens to slow the rate of productivity the requirement for dielectric constant is rapidly approaching an ϵ value of 2.0 with continued improvement sought even below this level to maintain this progression commonly known as Moore's law synthetic methods of obtaining materials in this range are addressed in this book the materials solution to the interconnect problem changing the insulator to lower the dielectric constant from 4.0 the ϵ of silicon dioxide introduces a host of reliability concerns as well as changes to the process of manufacturing semiconductor devices topics include porous films organic and inorganic porous films organic low k integration low k integration low k advanced interconnect low dielectric constant materials and applications in microelectronics and low k film property integration

selected peer reviewed papers from the 2011 international conference on soft magnetic materials icsmm 2011 on may 23-24 in male maldives

cicc 2 2nd china international conference on high performance ceramics

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