

# OXIDE RELIABILITY

A Summary of Silicon Oxide  
Wearout, Breakdown, and  
Reliability

Editor

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# Oxide Reliability

**Reza Moazzami**

## **Oxide Reliability:**

### **Oxide Reliability: A Summary Of Silicon Oxide Wearout, Breakdown, And Reliability** David J Dumin, 2002-01-18

This book presents in summary the state of our knowledge of oxide reliability. The articles have been written by experts who are among the most knowledgeable in the field. The book will be an invaluable aid to reliability engineers and manufacturing engineers helping them to produce and characterize reliable oxides. It can be used as an introduction for new engineers interested in oxide reliability besides being a reference for engineers already engaged in the field.

### **Gate Dielectric**

**Integrity** Dinesh C. Gupta, 2000 Annotation Contains papers from a January 1999 conference held in San Jose California describing concepts and metrology of Gate Dielectric Integrity GDI and discussing its applications for material and device processes and tool qualification. Topics include methods protocols and reliability assessment as related to dielectric integrity. Papers are organized in sections on concepts thin gate dielectrics characterization and applications and standardization. There is also a section summarizing panel discussions. Gupta is affiliated with Mitsubishi Silicon America Brown is affiliated with Texas Instruments Inc Annotation copyrighted by Book News Inc Portland OR

### **VLSI Gate Oxide Reliability**

Chih-chieh King, 1996 Fundamentals of Silicon Carbide Technology Tsunenobu Kimoto, James A. Cooper, 2014-09-23 A comprehensive introduction and up to date reference to SiC power semiconductor devices covering topics from material properties to applications. Based on a number of breakthroughs in SiC material science and fabrication technology in the 1980s and 1990s the first SiC Schottky barrier diodes SBDs were released as commercial products in 2001. The SiC SBD market has grown significantly since that time and SBDs are now used in a variety of power systems particularly switch mode power supplies and motor controls. SiC power MOSFETs entered commercial production in 2011 providing rugged high efficiency switches for high frequency power systems. In this wide ranging book the authors draw on their considerable experience to present both an introduction to SiC materials devices and applications and an in depth reference for scientists and engineers working in this fast moving field. Fundamentals of Silicon Carbide Technology covers basic properties of SiC materials processing technology theory and analysis of practical devices and an overview of the most important systems applications. Specifically included are A complete discussion of SiC material properties bulk crystal growth epitaxial growth device fabrication technology and characterization techniques. Device physics and operating equations for Schottky diodes pin diodes JBS MPS diodes JFETs MOSFETs BJTs IGBTs and thyristors. A survey of power electronics applications including switch mode power supplies motor drives power converters for electric vehicles and converters for renewable energy sources. Coverage of special applications including microwave devices high temperature electronics and rugged sensors. Fully illustrated throughout the text is written by recognized experts with over 45 years of combined experience in SiC research and development. This book is intended for graduate students and researchers in crystal growth material science and semiconductor device technology. The book is also useful for design engineers application engineers and product managers in

areas such as power supplies converter and inverter design electric vehicle technology high temperature electronics sensors and smart grid technology **NISTIR. ,2001 Defects in Microelectronic Materials and Devices** Daniel M.

Fleetwood,Ronald D. Schrimpf,2008-11-19 Uncover the Defects that Compromise Performance and ReliabilityAs microelectronics features and devices become smaller and more complex it is critical that engineers and technologists completely understand how components can be damaged during the increasingly complicated fabrication processes required to produce them A comprehensive survey of defe Gate Oxide Reliability of 4H-SiC MOSFETs Tianshi Liu (Electrical engineer),2022 SiC power MOSFETs have received increasing attention in electric vehicle EV applications Due to the safety critical nature and the operational lifetime requirement of the automotive industry the long term integrity of the gate oxides of SiC power MOSFETs is a primary concern This dissertation evaluates the gate oxide reliability of recently manufactured commercial SiC power MOSFETs from various vendors In addition research work on the oxide lifetime evaluations and the failure mechanisms under different operating conditions is also included We first analyze the gate leakage current behaviors and the corresponding failure mechanisms of recently manufactured commercial 1 2 kV SiC power MOSFETs under different oxide electric fields Due to the effects of positive and negative charge trapping in the oxide distinct gate leakage current behaviors are observed under different oxide electric fields The threshold voltage shift measurements show that impact ionization induced hole trapping is the cause of the leakage current behavior and the primary failure mechanism under high oxide electric fields We also show that the near interface oxide traps affect gate leakage current behaviors under different temperatures When a significant amount of near interface oxide traps exist within the oxide the breakdown voltage of the MOSFET decreases at elevated temperatures and a cross over phenomenon occurs Therefore gate leakage current measurements under different temperatures can be used as an indicator for gate oxide quality Constant voltage time dependent dielectric breakdown TDDB measurements are applied to the commercial SiC power MOSFETs under moderate and high oxide electric fields Different electric field acceleration parameters under different oxide electric fields are observed The gate leakage current and threshold voltage shift measurements confirm that the impact ionization induced hole trapping is the cause of higher field acceleration parameters under high oxide electric fields It is also demonstrated that a higher leads to lifetime overestimation under normal operating conditions Therefore constant voltage TDDB measurements must be performed at lower oxide electric fields to avoid hole trapping and establish more reliable lifetime predictions The effects of surface defects on the gate oxide reliability and yield of large area SiC power MOSFETs are also studied Yield analyses are applied to defect maps of 6 inch commercial SiC n type wafers The results show that the defect density needs to be reduced to 0 2 cm<sup>2</sup> or lower to obtain more than 80% yield for manufacturing the 200A SiC power MOSFETs desired by the automotive industry TDDB measurements are conducted on commercially available SiC power MOSFETs with different current ratings i e different device areas Degradation of oxide lifetime prediction and more spread out oxide failure times are

observed for the larger commercial power MOSFETs. Detailed discussion on the gate oxide screening process and the comparison of the gate oxide reliability between planar and trench SiC power MOSFETs are also included. **Naval Research Reviews**, 1989. *Thin Oxide Reliability in Integrated Circuits* Elyse Rosenbaum, 1992. **Predictive Simulation of Semiconductor Processing** Jarek Dabrowski, Eicke R. Weber, 2013-03-09. Predictive Simulation of Semiconductor Processing enables researchers and developers to extend the scaling range of semiconductor devices beyond the parameter range of empirical research. It requires a thorough understanding of the basic mechanisms employed in device fabrication such as diffusion, ion implantation, epitaxy, defect formation and annealing, and contamination. This book presents an in-depth discussion of our current understanding of key processes and identifies areas that require further work in order to achieve the goal of a comprehensive predictive process simulation tool. **Silicon Nitride and Silicon Dioxide Thin Insulating Films** Electrochemical Society. Dielectric Science and Technology Division, 2001. *Silicon Nitride and Silicon Dioxide Thin Insulating Films* M. Jamal Deen, 1997. **Silicon Nitride and Silicon Dioxide Thin Insulating Films**, 2001. *On the Improving of the Gate Oxide Reliability* P. Bellutti, 1996. **Ultra Clean Processing of Semiconductor Surfaces XIII** Paul W. Mertens, Marc Meuris, Marc Heyns, 2016-09-05. Selected peer reviewed papers from the 13th International Symposium on Ultra Clean Processing of Semiconductor Surfaces UCPSS September 12-14 2016 Knokke Belgium. **Oxide Reliability and Characterization for Strained and (110) Substrate-oriented P-channel Silicon-on-insulator MOSFETs** Lu Yu, 2006. *Japanese Journal of Applied Physics*, 2006. *Predicting Gate Oxide Reliability from In-line Statistical Reliability Control in I.C. Manufacture* James Gerard Prendergast, 1997. **Ultra-thin Gate Oxide Reliability** Chew Hoe Ang, 2000. *A Method for Projecting Gate Oxide Reliability and Optimizing Reliability Screens* Reza Moazzami, 1989.

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