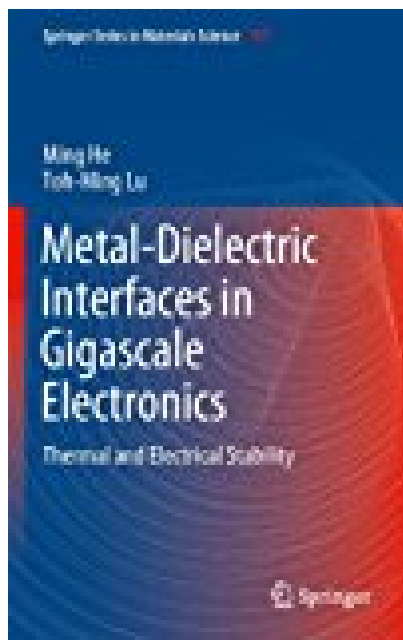


# Metal-Dielectric Interfaces in Gigascale Electronics Thermal and Electrical Stability Springer Series in Materials Science

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## BOOK DETAILS

- Author : Ming He
- Pages : 149 Pages
- Publisher : Springer
- Language : English
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## **BOOK SYNOPSIS**

Metal-dielectric interfaces are ubiquitous in modern electronics. As advanced gigascale electronic devices continue to shrink, the stability of these interfaces is becoming an increasingly important issue that has a profound impact on the operational reliability of these devices. In this book, the authors present the basic science underlying the thermal and electrical stability of metal-dielectric interfaces and its relationship to the operation of advanced interconnect systems in gigascale electronics. Interface phenomena, including chemical reactions between metals and dielectrics, metallic-atom diffusion, and ion drift, are discussed based on fundamental physical and chemical principles. Schematic diagrams are provided throughout the book to illustrate interface phenomena and the principles that govern them. Metal-Dielectric Interfaces in Gigascale Electronics provides a unifying approach to the diverse and sometimes contradictory test results that are reported in the literature on metal-dielectric interfaces. The goal is to provide readers with a clear account of the relationship between interface science and its applications in interconnect structures. The material presented here will also be of interest to those engaged in field-effect transistor and memristor device research, as well as university researchers and industrial scientists working in the areas of electronic materials processing, semiconductor manufacturing, memory chips, and IC design.

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