

# Structure and Electronic Properties of Ultrathin Dielectric Films on Silicon and Related Structures: Volume 592 (MRS Proceedings)



With the ever-decreasing dimension, laterally and vertically, in CMOS and DRAM technology, the understanding of thin insulators and their interfaces with silicon have become of critical importance. As a result of this scaling of semiconductor devices, an increased interest from industrial, government, and university laboratories has become evident in this field of study. The book, first published in 2000, includes detailed theoretical studies of the nature of SiO<sub>2</sub> and its interface with silicon, electron paramagnetic resonance for the study of defects, electron tunneling, and band alignment among others. There are also studies developing new techniques and advancing our understanding of these dielectrics and interfaces, including addressing the issue of dielectric breakdown. Aside from the work addressing SiO<sub>2</sub>, there are a number of papers regarding the application of the so-called high-k dielectrics. The high-k materials addressed in the volume include such films as Ta<sub>2</sub>O<sub>5</sub>, HfO<sub>2</sub>, Bi<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub>, CeO<sub>2</sub>, and ZrO<sub>2</sub>.

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