## Molecular Modeling And Multiscaling Issues For Electronic Material Applications

## DOWNLOAD HERE

From the contents: Part I Quantum Mechanics and Molecular Methods: Uses for Property Understanding.- Atomistic Simulations of Microelectronic Materials: Prediction of Mechanical, Thermal and Electrical Properties.- Using Molecular Modeling Trending to Understand Dielectric Susceptibility.-Understanding Cleaner Efficiency for BARC (Bottom Anti-Reflective Coating) After Plasma Etch in Dual Damascene Structures Through the Practical Use of Molecular Modeling Trends. - Part II. Large scale atomistic methods and scaling methods to understand mechanical failure in metals.- Roles of grain boundaries in the strength of metals by using atomic simulations.- Semi Emprical Low Cycle Fatigue Crack Growth Analysis of Nanostructure Chip-To-Package Copper Interconnect Using Molecular Simulation. - Part III. Molecular scale modeling uses for Carbon Nanotube behavior. - Thermal conductivity of carbon nanotube under external mechanical stresses and moisture by molecular dynamics simulation.-Influence of Structural Parameters of Carbon Nanotubes on Their Thermal Conductivity Numerical Assessment.- Part IV. Molecular methods to understand mechanical and physical properties.- The mechanical properties modeling of nano-scale materials by molecular dynamics.- Molecular design of SAM (Self-Assembled Monolayer) coupling agent for reliable interfaces by Molecular Dynamics Simulation.- Microelectronics Packaging Materials:Correlating Structure and Property using Molecular Dynamics Simulations.- PartV. Multiscale methods and perspectives.- Investigation of interfacial delamination in electronic packages. - Multiscale approach optimization on surface wettability change.-Glass Transition Analysis of Crosslinked Polymers Numerical and Mesoscale Approach.- Mechanical Properties of an Epoxy, Modeled Using Particle Dynamics as Parameterized through Molecular Modeling. EAN/ISBN : 9781461417286 Publisher(s): Springer, Berlin, Springer US Discussed keywords: Elektronikbauelemente Format: ePub/PDF Author(s): Iwamoto, Nancy - Yuen, Matthew - Fan, Haibo

## DOWNLOAD HERE

Similar manuals: