



Technology CAD Systems

By Franz Fasching

Springer Jan 2012, 2012. Taschenbuch. Book Condition: Neu. 244x170x17 mm. This item is printed on demand - Print on Demand Neuware - As the cost of developing new semiconductor technology at ever higher bit/gate densities continues to grow, the value of using accurate TCAD simulation tools for design and development becomes more and more of a necessity to compete in today's business. The ability to tradeoff wafer starts in an advanced piloting facility for simulation analysis and optimization utilizing a 'virtual fab' S/W tool set is a clear economical asset for any semiconductor development company. Consequently, development of more sophisticated, accurate, physics-based, and easy-to-use device and process modeling tools will receive continuing attention over the coming years. The cost of maintaining and paying for one's own internal modeling tool development effort, however, has caused many semiconductor development companies to consider replacing some or all of their internal tool development effort with the purchase of vendor modeling tools. While some (noteably larger) companies have insisted on maintaining their own internal modeling tool development organization, others have elected to depend totally on the tools offered by the TCAD vendors and have consequently reduced their modeling staffs to a bare minimal...



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