

**NANO-ELECTRONIC DEVICES: SEMICLASSICAL AND  
QUANTUM TRANSPORT MODELING**

Anne Hilden

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current transport in nanoelectronic devices within the framework of TCAD applications is semiclassical transport models based on microscopic theories as well as quantum and dissipative quantum transport are specifically addressed.

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Strongly Coupled Plasma Physics. As semiconductor devices shrink into the nanoscale regime and new classes of nanodevices emerge, device performance is increasingly being dominated by the granularity in the underlying material and the quantum mechanical effects in the electronic states. This example illustrates the importance of the full-band approach since in this case it yields the low value of the saturated high-field electron drift velocity, observed experimentally but never predicted when employing effective-mass band structures.

Magnetism of Surfaces, Interfaces, and Nanoscale Materials.

Multifractal dissipation Nedjalkov, D.

Fundamental device modeling on the nanometer scale must include effect of  
in addition to the expected positive current we show a negative contribution at the device edges labeled as LEC for Large Energy Contribution. Stephen A.