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Author: Siegfried Selberherr Publisher: Springer Science & Business Media ISBN: 3709166578 Size: 16.82 MB Format: PDF, Mobi Category : Computers Languages : en Pages : 507 View: 3396 Book Description: The "Fifth International Conference on Simulation of Semiconductor Devices and Processes" (SISDEP 93) continues a series of conferences which was initiated in 1984 by K. Board and D. R. J. Owen ...

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This chapter covers different methods of semiconductor device modeling for electronic circuit simulation. It presents a discussion on physics-based analytical modeling approach to predict device operation at specific conditions such as applied bias (e.g., voltages and currents); environment (e.g., temperature, noise); and physical characteristics (e.g., geometry, doping levels).

Semiconductor Device Modeling and Simulation for ...

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Introduction. The invention of semiconductor devices is a fairly recent one, considering classical time scales in human life. The bipolar transistor was announced in 1947, and the MOS transistor, in a practically usable manner, was demonstrated in 1960. From these beginnings the semiconductor device field has grown rapidly.

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Abstract. This chapter provides a brief history of semiconductor manufacturing papers in the Winter Simulation Conference (WSC) along with some other key events that led to the development of a community of academicians and semiconductor manufacturing practitioners focused on modeling and analysis of semiconductor manufacturing.

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