



Frontiers in Electronics: Advanced Modeling of Nanoscale Electron Devices: 54 (Selected Topics in Electronics and Systems)

Benjamin Et Al Iniguez

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This book consists of four chapters to address at different modeling levels for different nanoscale MOS structures (Single- and Multi-Gate MOSFETs). The collection of these chapters in the book are attempted to provide a comprehensive coverage on the different levels of electrostatics and transport modeling for these devices, and relationships between them. In particular, the issue of quantum transport approaches, analytical predictive 2D/3D modeling and design-oriented compact modeling. It should be of interests to researchers working on modeling at any level, to provide them with a clear explanation of the approaches used and the links with modeling techniques for either higher or lower levels.

Contents:

- Monte-Carlo Simulation of Ultra-Thin Film Silicon-on-Insulator MOSFETs (*F Gámiz, C Sampedro, L Donetti and A Godoy*)
- Analytical Models and Electrical Characterisation of Advanced MOSFETs in the Quasi-Ballistic Regime (*R Clerc and G Ghibaudo*)
- Physics Based Analytical Modeling of Nanoscale Multigate MOSFETs (*T A Fjeldly and U Monga*)
- Compact Modeling of Double and Tri-Gate MOSFETs (*B Iñiguez, R Ritzenthaler and F Lime*)

Readership: Scientists, engineers, research leaders, and even investors interested in microelectronics, nanoelectronics, and optoelectronics. It is also recommended to graduate students working in these fields.



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