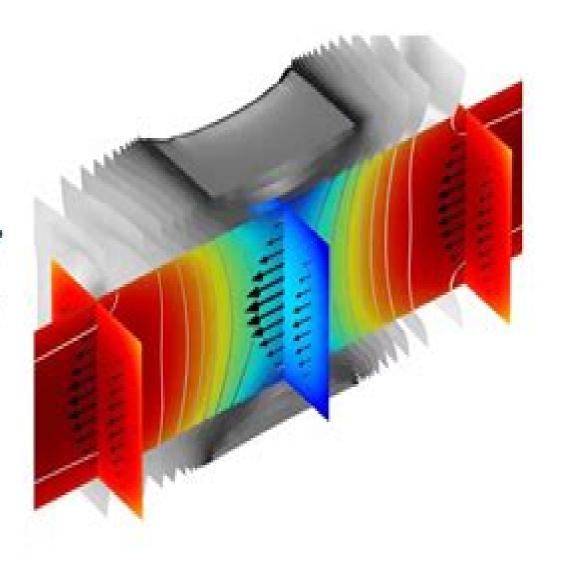
# Semiconductor Device Physics Simulation

Chien Liu

COMSOL, Inc.



# **Analysis And Simulation Of Semiconductor Devices**

Luis L. Bonilla, Miguel Moscoso, Gloria Platero, Jose M. Vega

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In the subsequent chapters the scaling issues of the semiconductor device technology are addressed followed by the description of novel concept based semiconductor devices The last section illustrates the numerical simulation methods ranging from the fabrication processes to the device performances Each chapter is self contained and refers to related topics treated in other chapters when necessary so that the reader interested in a specific subject can easily identify a personal reading path through the vast contents of the handbook Simulation of Semiconductor Devices and Processes Heiner Ryssel, Peter Pichler, 2012-12-06 SISDEP 95 provides an international forum for the presentation of state of the art research and development results in the area of numerical process and device simulation Continuously shrinking device dimensions the use of new materials and advanced processing steps in the manufacturing of semiconductor devices require new and improved software The trend towards increasing complexity in structures and process technology demands advanced models describing all basic effects and sophisticated two and three dimensional tools for almost arbitrarily designed geometries The book contains the latest results obtained by scientists from more than 20 countries on process simulation and modeling simulation of process equipment device modeling and simulation of novel devices power semiconductors and sensors on device simulation and parameter extraction for circuit models practical application of simulation numerical methods and Simulation of Semiconductor Devices and Processes Siegfried Selberherr, Hannes Stippel, Ernst software Strasser, 2012-12-06 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 at the University College of Wales Swansea where it took place a second time in 1986 Its organization was succeeded by G Baccarani and M Rudan at the University of Bologna in 1988 and W Fichtner and D Aemmer at the Federal Institute of Technology in Zurich in 1991 This year the conference is held at the Technical University of Vienna Austria September 7 9 1993 This conference shall provide an international forum for the presentation of out standing research and development results in the area of numerical process and de vice simulation The miniaturization of today s semiconductor devices the usage of new materials and advanced process steps in the development of new semiconduc tor technologies suggests the design of new computer programs This trend towards more complex structures and increasingly sophisticated processes demands advanced simulators such as fully three dimensional tools for almost arbitrarily complicated geometries With the increasing need for better models and improved understand ing of physical effects the Conference on Simulation of Semiconductor Devices and Processes brings together the simulation community and the process and device en gineers who need reliable numerical simulation tools for characterization prediction and development Simulation of Semiconductor Devices and Processes, Vol. 5 Siegfried Selberherr, Hannes Stippel, Ernst Strasser, 1993 Progress in Industrial Mathematics at ECMI 2006 Luis L. Bonilla, Miguel Moscoso, Gloria Platero, Jose M. Vega, 2007-12-24 Proceedings from the 14th European Conference for Mathematics in Industry held in Madrid present innovative numerical and mathematical techniques Topics include the latest

applications in aerospace information and communications materials energy and environment imaging biology and biotechnology life sciences and finance In addition the conference also delved into education in industrial mathematics and web learning Simulation of Semiconductor Devices and Processes, Vol. 2 K. Board, D. R. J. Owen, 1986

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