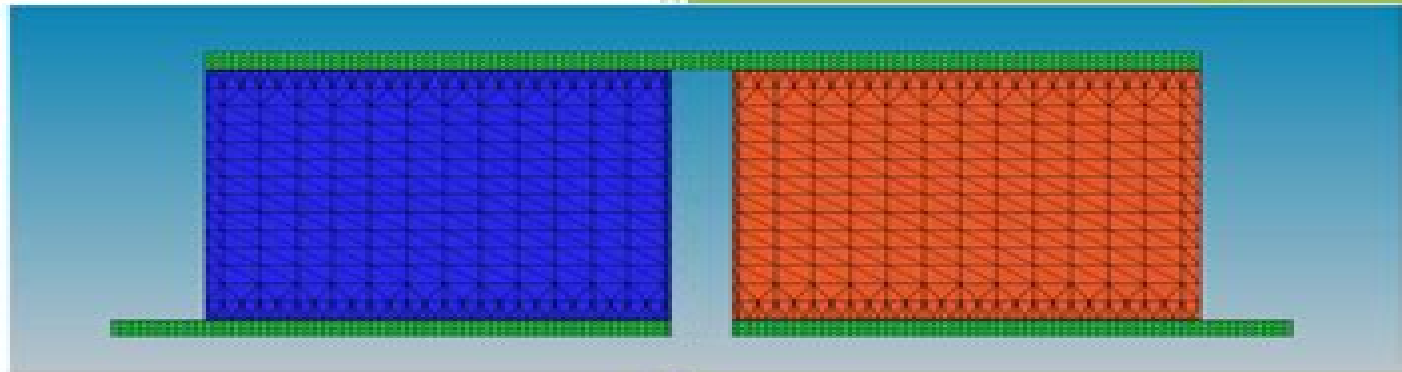


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Presented to:
Dr. Hamdy Abdel-Hamid

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Center of Nanoelectronics and Devices
- Information Technology Institute
6/8/2013

Tcad Raphael Simulation Manual

Wenjian Yu,Xiren Wang



Tcad Raphael Simulation Manual:

Nanoelectronics: Physics, Materials and Devices Angsuman Sarkar, Chandan Kumar Sarkar, Arpan Deyasi, Debashis De, Arezki Benfdila, 2023-01-03 Approx 528 pages Approx 528 pages

Advanced Field-Solver Techniques for RC Extraction of Integrated Circuits Wenjian Yu, Xiren Wang, 2014-04-21 Resistance and capacitance RC extraction is an essential step in modeling the interconnection wires and substrate coupling effect in nanometer technology integrated circuits IC The field solver techniques for RC extraction guarantee the accuracy of modeling and are becoming increasingly important in meeting the demand for accurate modeling and simulation of VLSI designs Advanced Field Solver Techniques for RC Extraction of Integrated Circuits presents a systematic introduction to and treatment of the key field solver methods for RC extraction of VLSI interconnects and substrate coupling in mixed signal ICs Various field solver techniques are explained in detail with real world examples to illustrate the advantages and disadvantages of each algorithm This book will benefit graduate students and researchers in the field of electrical and computer engineering as well as engineers working in the IC design and design automation industries Dr Wenjian Yu is an Associate Professor at the Department of Computer Science and Technology at Tsinghua University in China Dr Xiren Wang is a R D Engineer at Cadence Design Systems in the USA

Simulation of Semiconductor Processes and Devices 2007 Tibor Grassner, 2007-09-18 This volume contains the proceedings of the 12th International Conference on Simulation of Semiconductor Processes and Devices SISPAD 2007 held September 2007 in Vienna Austria It provides a global forum for the presentation and discussion of recent advances and developments in the theoretical description physical modeling and numerical simulation and analysis of semiconductor fabrication processes device operation and system performance

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