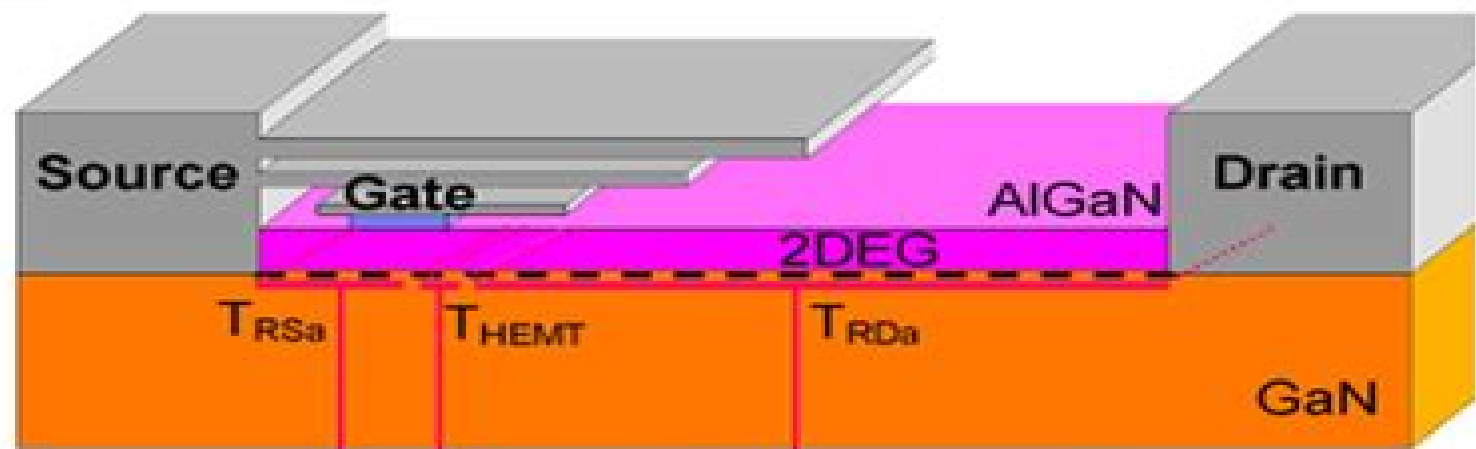
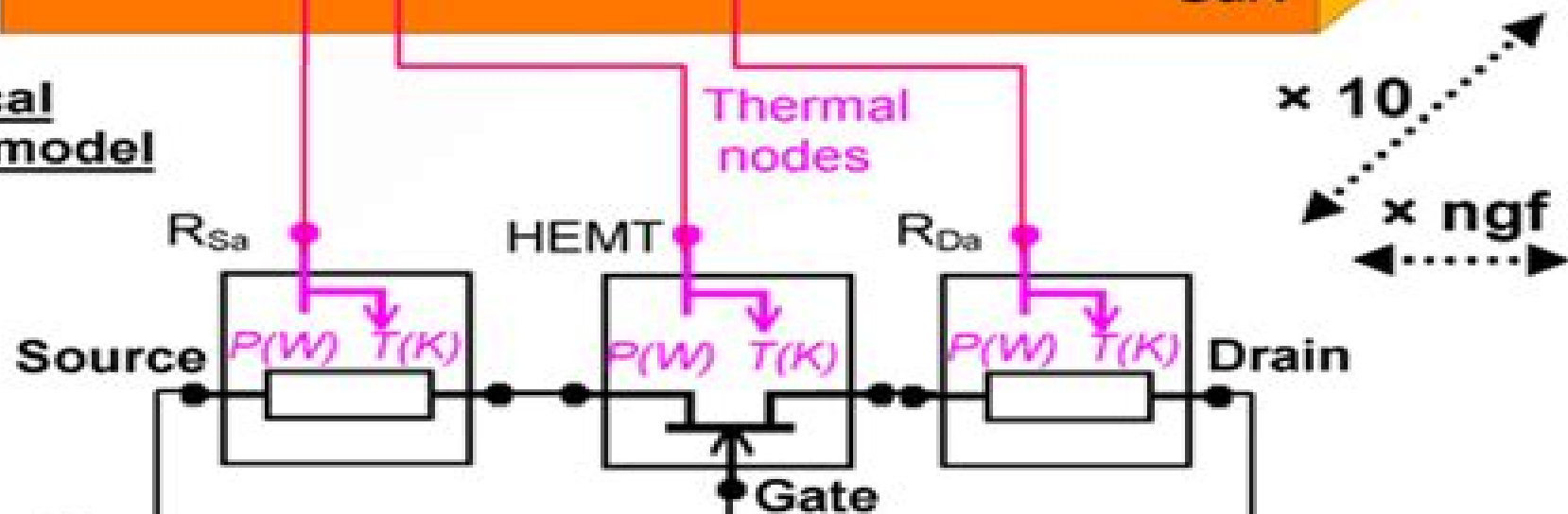


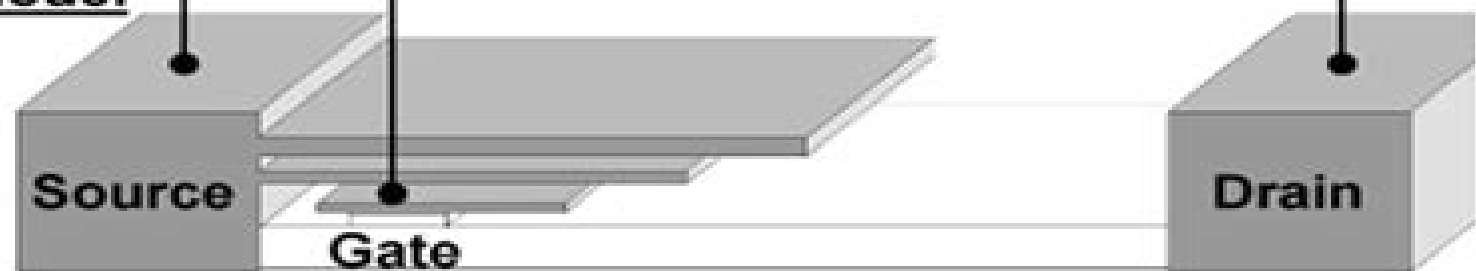
Thermal FEM model



Electrical circuit model



Metallization electrical FEM model



Mixed Mode Simulation

Yi-Fan Hsu

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Mixed-Mode Simulation Resve A. Saleh, A. Richard Newton, 2012-12-06 Our purpose in writing this book was two fold First we wanted to compile a chronology of the research in the field of mixed mode simulation over the last ten to fifteen years A substantial amount of work was done during this period of time but most of it was published in archival form in Masters theses and Ph D dissertations Since the interest in mixed mode simulation is growing and a thorough review of the state of the art in the area was not readily available we thought it appropriate to publish the information in the form of a book Secondly we wanted to provide enough information to the reader so that a proto type mixed mode simulator could be developed using the algorithms in this book The SPLICE family of programs is based on the algorithms and techniques described in this book and so it can also serve as docu mentation for these programs ACKNOWLEDGEMENTS The authors would like to dedicate this book to Prof D O Peder son for inspiring this research work and for providing many years of support and encouragement The authors enjoyed many fruitful discus sions and collaborations with Jim Kleckner Young Kim Alberto Sangiovanni Vincentelli and Jacob White and we thank them for their contributions We also thank the countless others who participated in the research work and read early versions of this book Lillian Beck provided many useful suggestions to improve the manuscript Yun cheng Ju did the artwork for the illustrations

Mixed Mode Simulation William J. Thibault, Edmond S. Cooley, Thayer School of Engineering, 1995 **Mixed-mode Circuit Level Simulation in VHDL** Bangalore Subramanyam, 1993 [A Unified Approach to Mixed-mode Simulation](#) Washington University. Dept. of Computer Science, Roger D. Chamberlain, Mark A. Franklin, 1986 **Implementing a Mixed Mode Analog and Digital Behavioral Simulator** Jeffrey Todd Robinson, 1992 **Digital Timing Macromodeling for VLSI Design Verification** Jeong-Taek Kong, David V. Overhauser, 2012-12-06 Digital Timing Macromodeling for VLSI Design Verification first of all provides an extensive history of the development of simulation techniques It presents detailed discussion of the various techniques implemented in circuit timing fast timing switch level timing switch level and gate level simulation It also discusses mixed mode simulation and interconnection analysis methods The review in Chapter 2 gives an understanding of

the advantages and disadvantages of the many techniques applied in modern digital macromodels The book also presents a wide variety of techniques for performing nonlinear macromodeling of digital MOS subcircuits which address a large number of shortcomings in existing digital MOS macromodels Specifically the techniques address the device model detail transistor coupling capacitance effective channel length modulation series transistor reduction effective transconductance input terminal dependence gate parasitic capacitance the body effect the impact of parasitic RC interconnects and the effect of transmission gates The techniques address major sources of errors in existing macromodeling techniques which must be addressed if macromodeling is to be accepted in commercial CAD tools by chip designers The techniques presented in Chapters 4 6 can be implemented in other macromodels and are demonstrated using the macromodel presented in Chapter 3 The new techniques are validated over an extremely wide range of operating conditions much wider than has been presented for previous macromodels thus demonstrating the wide range of applicability of these techniques **Approaches to**

Combined Mixed-level and Mixed-mode Simulation Paul Michael Webster, University of Manchester. Department of Computer Science, 1996 *Object-oriented Techniques for Mixed-mode Circuit Simulation* Peter Russell Lamb, 1991

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and can run a simultaneous simulation of them under the same environment The object in this report is to give the reader a thumbnail sketch of this emerging technology's evolution in the electronic industry and to bring the reader up to date on the trends and methodologies popular in this industry Mixed mode simulation the latest offshoot of the computer aided engineering industry appears to have arrived after many false starts as a bona fide and practical engineering tool

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Mixed-mode Analog/digital Simulation of MOS Circuits Jeh-Fu Tuan,1990 **Simulation and Test Pattern Generation for Bridge Faults in CMO ICs** Carl Roth,1994

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