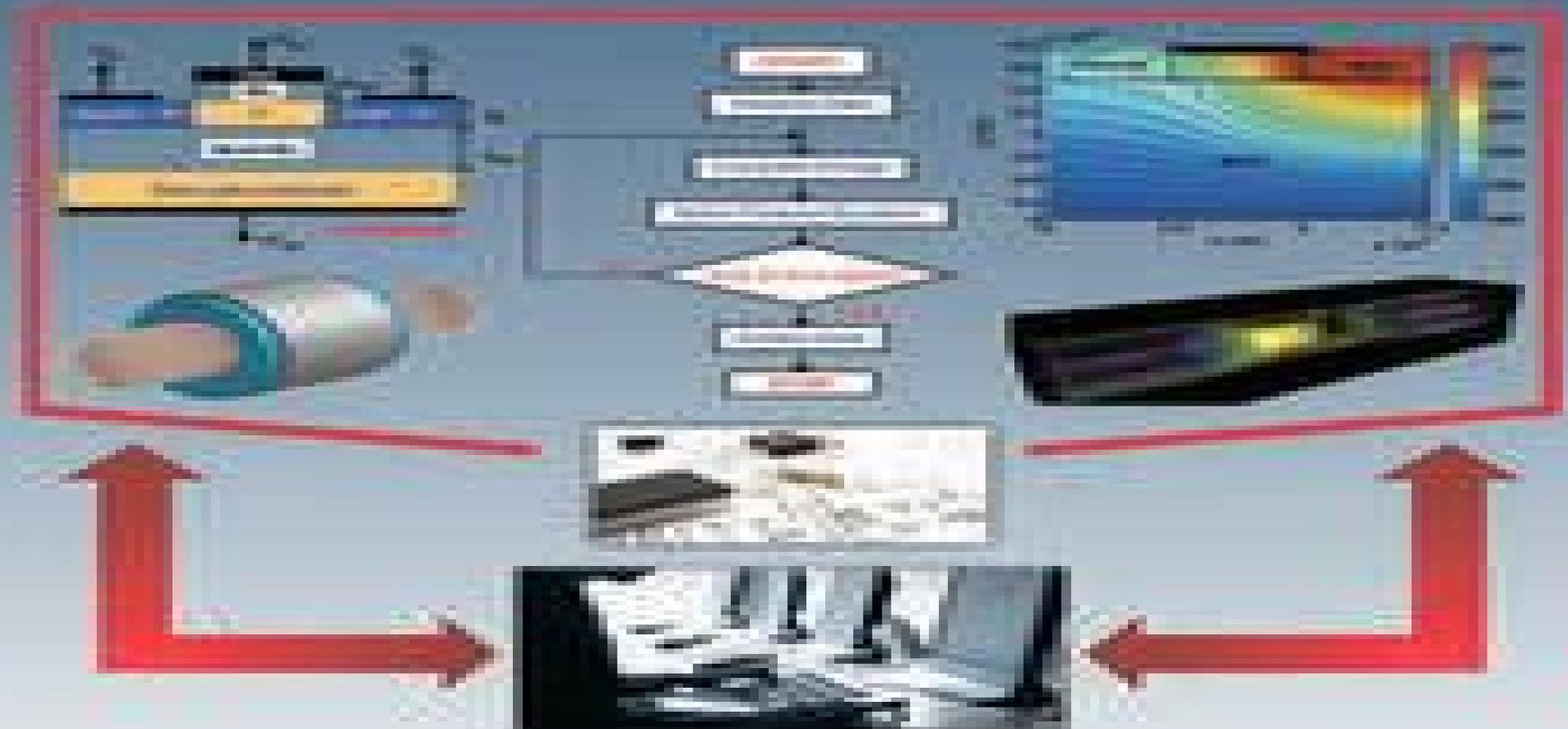


Computational Electronics

Semi-Classical and Quantum
Device Modeling and Simulation



D. Vasileska • S.M. Goodnick • G. Klimeck

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Computational Electronics Dragica Vasileska, Stephen M. Goodnick, 2022-06-01 Computational Electronics is devoted to state of the art numerical techniques and physical models used in the simulation of semiconductor devices from a semi classical perspective Computational electronics as a part of the general Technology Computer Aided Design TCAD field has become increasingly important as the cost of semiconductor manufacturing has grown exponentially with a concurrent need to reduce the time from design to manufacture The motivation for this volume is the need within the modeling and simulation community for a comprehensive text which spans basic drift diffusion modeling through energy balance and hydrodynamic models and finally particle based simulation One unique feature of this book is a specific focus on numerical examples particularly the use of commercially available software in the TCAD community The concept for this book originated from a first year graduate course on computational electronics taught now for several years in the Electrical Engineering Department at Arizona State University Numerous exercises and projects were derived from this course and have been included The prerequisite knowledge is a fundamental understanding of basic semiconductor physics the physical models for various device technologies such as pndiodes bipolar junction transistors and field effect transistors

Computational Electronics Karl Hess, J.P. Leburton, U. Ravaioli, 2013-03-14 Large computational resources are of ever increasing importance for the simulation of semiconductor processes devices and integrated circuits The Workshop on Computational Electronics was intended to be a forum for the dis cussion of the state of the art of device simulation Three major research areas were covered conventional simulations based on the drift diffusion and the hydrodynamic models Monte Carlo methods and other techniques for the solution of the Boltzmann transport equation and computational approaches to quantum transport which are relevant to novel devices based on quantum interference and resonant tunneling phenomena Our goal was to bring together researchers from various disciplines that contribute to the advancement of device simulation These include Computer Sci ence Electrical Engineering Applied Physics and Applied Mathematics The suc cess of this multidisciplinary formula was proven by numerous interactions which took place at the Workshop and during the following three day Short Course on Computational Electronics The format of the course including a number of tutorial lectures and the large attendance of graduate students stimulated many discussions and has proven to us once more the importance of cross fertilization between the different disciplines

Computational Electronics Dragica Vasileska, 2010 Starting with the simplest semiclassical approaches and ending with the description of complex fully quantum mechanical methods for quantum transport analysis of state of the art devices Computational Electronics Semiclassical and Quantum Device Modeling and Simulation provides a comprehensive overview of the essential techniques and methods for effectively analyzing transport in semiconductor devices With the transistor reaching its limits and new device designs and paradigms of operation being explored this timely resource delivers the simulation methods needed to properly model state of *Journal*

of Computational Electronics, 2002 **Computational Single-Electronics** Christoph Wasshuber, 2012-12-06 From the reviews This is a well written book offering a clear and detailed insight into physical processes and numerical procedures essential to the single electron dynamics in electro conducting media Zentralblatt f r Mathematik und ihre Grenzgebiete

Computational Electronics, 1991 Computational Electronics and Electromagnetics, 1993 The Computational Electronics and Electromagnetics thrust area is a focal point for computer modeling activities in electronics and electromagnetics in the Electronics Engineering Department of Lawrence Livermore National Laboratory LLNL Traditionally they have focused their efforts in technical areas of importance to existing and developing LLNL programs and this continues to form the basis for much of their research A relatively new and increasingly important emphasis for the thrust area is the formation of partnerships with industry and the application of their simulation technology and expertise to the solution of problems faced by industry The activities of the thrust area fall into three broad categories 1 the development of theoretical and computational models of electronic and electromagnetic phenomena 2 the development of useful and robust software tools based on these models and 3 the application of these tools to programmatic and industrial problems In FY 92 they worked on projects in all of the areas outlined above The object of their work on numerical electromagnetic algorithms continues to be the improvement of time domain algorithms for electromagnetic simulation on unstructured conforming grids The thrust area is also investigating various technologies for conforming grid mesh generation to simplify the application of their advanced field solvers to design problems involving complicated geometries They are developing a major code suite based on the three dimensional 3 D conforming grid time domain code DSI3D They continue to maintain and distribute the 3 D finite difference time domain FDTD code TSAR which is installed at several dozen university government and industry sites

Computational Electronics Dragica / Goodnick Vasileska (Stephen M.), Book of Abstracts International Workshop on Computational Electronics (11, 2006, Wien), 2006 Journal of Computational Electronics: Proceedings of the International Workshop on Computational Electronics (8th) (IWCE-8), Beckman Institute, University of Illinois, 15-18 October 2001. Volume 1, 2002 The Journal of Computational Electronics fills the need for a publication dedicated to physical simulation of devices and processes with a focus on interdisciplinary work and large scale supercomputing applications The community typically attending IWCE best represents the audience addressed by the Journal of Computational Electronics but the composition of this community has grown over the years to include even more discipline areas The emphasis of the first workshops was on classical device simulation approaches drift diffusion and hydrodynamics models and particle Monte Carlo methods while other areas have gained increasing importance at following meetings These areas include quantum transport and quantum device simulation opto electronics process simulation and more recently molecular devices MEMS and transport in biological ion channels Rapid technological advances in new directions of research and the widespread availability of high performance computers and clusters have clearly challenged the computational electronics community to

address simulation problems of increasing complexity in the nano technology area These efforts require even more contributions from other fields of expertise from heat transfer and micro fluidics to computational chemistry and computational biology

Book of abstracts / 16th International Workshop on Computational Electronics : [June 4-7, 2013, Nara, Japan] International Workshop on Computational Electronics (16, 2013, Nara),2013

Proceedings of the International Workshop on Computational Electronics (3rd), Held in Portland, Oregon on 18-20 May 1994,1994 The Third International Workshop on Computational Electronics was held at the Benson Hotel in downtown Portland Oregon on May 18 19 and 20 1994 The workshop was devoted to a broad range of current issues in computational electronics related to the simulation of electronic transport in semiconductors and semiconductor devices particularly those which require large computational resources There were over 100 participants in the Portland workshop of which more than one quarter represented research groups outside of the United States including Austria Canada France Germany Italy Japan Switzerland and the United Kingdom The emphasis of the contributions reflects the interdisciplinary nature of computational electronics with researchers from the chemistry Computer Science Engineering Mathematics and Physics communities participating in the workshop

Proceedings of the 8th International Workshop on Computational Electronics (IWCE-8),2006

Proceedings ... International Workshop on Computational Electronics ,199? **Special Issue on Computational Electronics** Carl Gardner,United States. Army Research Office,National Science Foundation,United States. Office of Naval Research,1998

Fifth International Workshop on Computational Electronics ,1997 The Fifth International Workshop on Computational Electronics IWCE 5 was held on the campus of the University of Notre Dame May 28 30 1997 As in previous IWCE meetings the workshop covered all aspects of advanced simulation of electronic transport in semiconductors and semiconductor devices particularly those which use large computational resources More specifically IWCE 5 focused on the following three major themes 1 Device Simulation 2 Optoelectronics and 3 Quantum Simulation IWCE 5 attracted 168 registered participants and featured 15 invited speakers 40 oral presentations and 75 poster papers As a novelty IWCE 5 included an evening session with hands on software demonstrations Sponsorship for IWCE 5 was provided by the National Science Foundation the Office of Naval Research the Army Research Office and the Notre Dame Department of Electrical Engineering and the College of Engineering These funds were used for invited speakers travel registration and lodging partial student travel support publication and mailing costs including the abstract booklet and the forthcoming proceedings conference facilities and for local support supplies and travel to NCCE at the Beckman Institute for W Porod

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Jirauschek, F. W. Chen, G. H. Chen, C. Y. Chen, B. Cheng, V. Chimalgi, M. S. Choi, M. Chung-Nguyen, C. Mangold, E. Colomes, M. R. Connolly, C. Gelly, G. Cuniberti, T. Cusati, A. Dabral, D. Perić, D. Selli, R. Daugherty, A. H. Davoody, C. Delerue, D. Wickramaratne, H. Dey, P. Dollfus, D. Donadio, D. Guo, I. Duchemin, D. Marian, A. M. El-Sayed, P. Ellinghaus, M. A. Elmessary, T. Fang, J. Huang, F. Michelini, J. S. Friedman, A. Fediai, D. K. Ferry, G. Fiori, M. V. Fischetti, J. Fonseca, A. Fortunelli, F. Mitterbauer, T. Frauenheim, W. R. Frensley, F. Karimi, A. J. Gabourie, G. Iannaccone, L. Genovese, V. P. Georgiev, L. Gerrer, J. Ghosh, G. Seifert, W. Goes, S. M. Goodnick, T. Grasser, G. Groeseneken, X. Guo, H. Guo, D. Guzman, R. Hathwar, E. R. Hedin, E. D. Herbschleb, C. Huang, H. Viet Nguyen, Z. Ikonic, H. Ilatikhameneh, J. Maassen, T. Jayasekera, Z. Jiang, Y. S. Joe, O. Jonasson, B. Kaczer, K. Kalna, M. Karner, R. W. Kelsall, C. Kernstock, K. A. Khair, P. Kivisaari, I. Knezevic, A. Kommini, H. Kosina, T. Kubis, C. N. Lai, L. Raymond, L. Yin, M. Lannoo, A. Laturia, M. Y. Lee, D. Lemus, J. Lindberg, Y. Li, X. Liu, L. Liu, N. Locatelli, P. Long, A. Loureiro, M. Lundstrom, M. Masahara, W. Magnus, S. Mahapatra, P. Marconcini, M. Schröter, P. N. Martin, S. Mei, D. Mejia, X. Meshik, S. Migita, C. Millar, H. Miranda, A. Mizrahi, W. Mizubayashi, J. Morales Escalante, M. Thesberg, Y. Morita, S. Mothes, S. Mukherjee, P. Muralidharan, D. Nagy, H. Nakamura, A. Narayan, M. Nedjalkov, S. Neogi, N. Neophytou, M. Neupane, Y. M. Niquet, R. Nishat, B. Novakovic, J. H. Oh, Y. Okada, N. Onofrio, X. Oriols, A. O. Orlov, M. B. Orvis, D. Osintsev, H. Ota, A. Pacheco, P. Paletti, A. Papp, K. H. Park, P. Rinke, A. Pecchia, G. Penazzi, P. Sarangapani, S. Poduri, W. Porod, M. Povolotskyi, A. Price, S. Qazi, D. Querlioz, M. Quint, H. M. Rafferty, R. Rahman, K. Raleva, M. Rashid, U. Ravaioli, C. Ringhofer, M. Rodwell, I. Rungger, H. Sahasrabudhe, J. Saint-Martin, S. Selberherr, I. Sankin, Y. B. Shi, J. Shi, A. L. Shluger, H. Sirikumara, Z. Stanojević, V. Sverdlov, G. P. Szakmany, Y. P. Tan, D. Teich, E. Towie, V. T. Tran, J. Tulkki, G. Ulisse, D. Vasileska, R. Valin, M. L. Van de Put, W. G. Vandenberghe, A. S. Verhulst, D. Verreck, A. F. Vincent, D. Vodenicarevic, A. Wacker, L. Zhang, K. Wang, E. Wilson, Y. Wimmer, D. O. Winge, L. Wirtz, Y. Wu, S. Xiong, C. Y. Yam, T. Yasuda, G. Yin, K. Yoshida, L. Zentner, Z. Zhen, Network for Computational Nanotechnology (NCN), J. Wright, E. Zhu, 2015-08-27 Proceedings of the International Workshop on Computational Electronics, 1993 *Special Issue on Computational Electronics: New Challenges and Directions*, 2000 **2009 13th International Workshop on Computational Electronics (iwce-13)**. Louise Marston, 2009

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Table of Contents Computational Electronics Computational Electronics

1. Understanding the eBook Computational Electronics Computational Electronics
 - The Rise of Digital Reading Computational Electronics Computational Electronics
 - Advantages of eBooks Over Traditional Books
2. Identifying Computational Electronics Computational Electronics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Computational Electronics Computational Electronics
 - User-Friendly Interface

4. Exploring eBook Recommendations from Computational Electronics Computational Electronics
 - Personalized Recommendations
 - Computational Electronics Computational Electronics User Reviews and Ratings
 - Computational Electronics Computational Electronics and Bestseller Lists
5. Accessing Computational Electronics Computational Electronics Free and Paid eBooks
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 - Computational Electronics Computational Electronics eBook Subscription Services
 - Computational Electronics Computational Electronics Budget-Friendly Options
6. Navigating Computational Electronics Computational Electronics eBook Formats
 - ePub, PDF, MOBI, and More
 - Computational Electronics Computational Electronics Compatibility with Devices
 - Computational Electronics Computational Electronics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Computational Electronics Computational Electronics
 - Highlighting and Note-Taking Computational Electronics Computational Electronics
 - Interactive Elements Computational Electronics Computational Electronics
8. Staying Engaged with Computational Electronics Computational Electronics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Computational Electronics Computational Electronics
9. Balancing eBooks and Physical Books Computational Electronics Computational Electronics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Computational Electronics Computational Electronics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Computational Electronics Computational Electronics
 - Setting Reading Goals Computational Electronics Computational Electronics
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Computational Electronics Computational Electronics
 - Fact-Checking eBook Content of Computational Electronics Computational Electronics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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