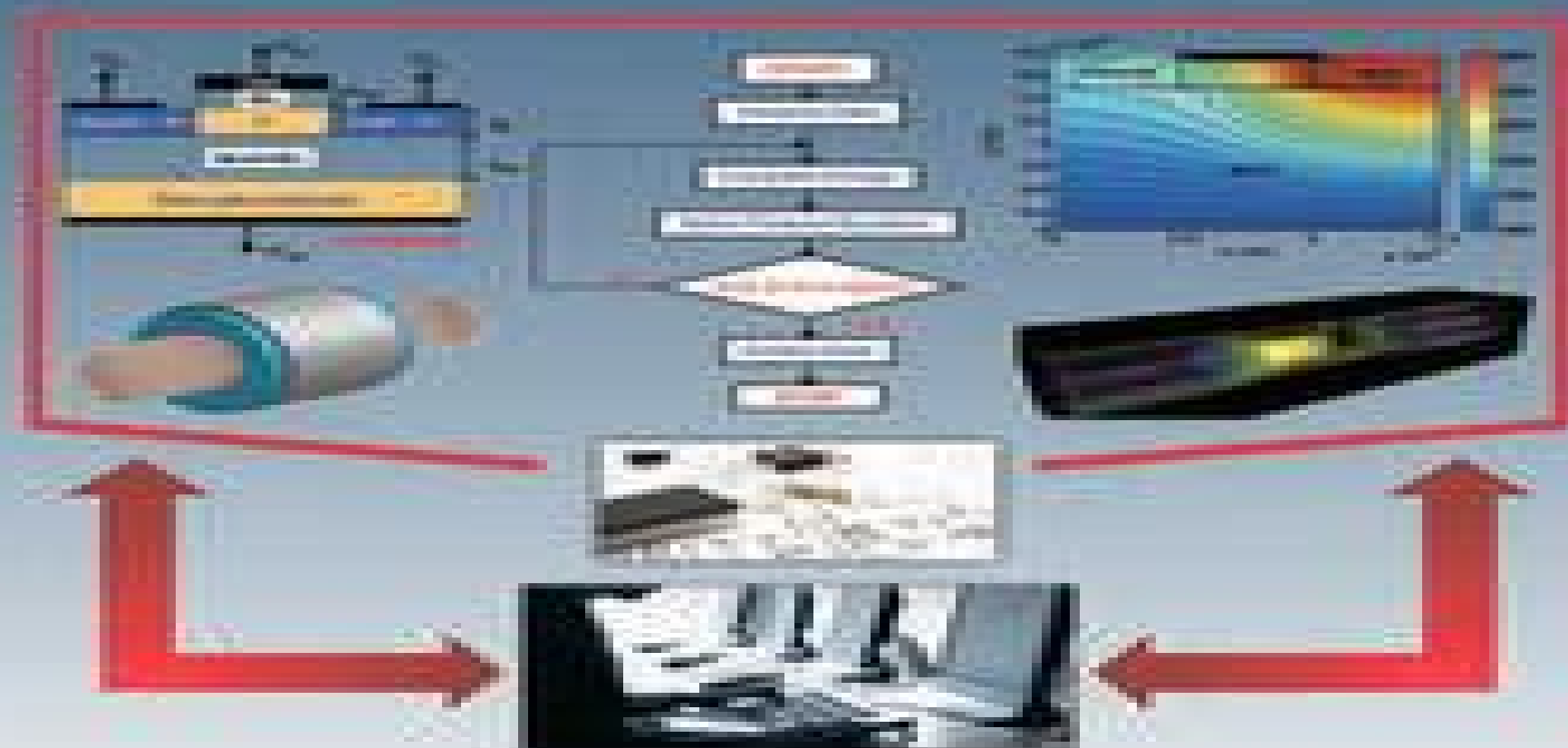


Computational Electronics

Semi-Classical and Quantum
Device Modeling and Simulation



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

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**International Workshop on
Computational Electronics (16, 2013,
Nara)**

Computational Electronics Computational Electronics:

Computational Electronics Dragica Vasileska, Stephen Marshall Goodnick, 2006 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 pn diodes 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 discussion 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 Science Electrical Engineering Applied Physics and Applied Mathematics The success 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**, 1991 **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 Electronics* Dragica / Goodnick Vasileska (Stephen M.), **Book of Abstracts** International Workshop on Computational Electronics (11, 2006, Wien), 2006 *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 **Book of abstracts / 16th International Workshop on Computational Electronics : [June 4-7, 2013, Nara, Japan]** International Workshop on Computational Electronics (16, 2013, Nara), 2013 **18th International Workshop on Computational Electronics** Gerhard Klimeck, A. Afzal, A. Sengupta, A. Roche, Z. Aksamija, A. Kefayati, M. Aldegunde, C. Alexander, A. Thean, S. Alqahtani, T. Ameen, M. A. Strosio, J. Appenzeller, B. Aradi, Y. C. Tsai, J. Barker, J. W. Jerome, J. Bermeo Lopez, G. H. Bernstein, S. Berrada, M. Bescond, S. Blawid, J. Bohorquez-Ballen, L. Bourdet, S. Bowden, T. B. Boykin, D. Brinkman, A. R. Brown, F. Brunetti, E. Bury, H. Carrillo-Nuñez, N. Cavassilas, A. Strachan, C. 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. Micheli, J. S. Friedman, A. Fedai, 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. Gerrier, J. Ghosh, G. Seifert, W. Goes, S. M. Goodnick, T. Grassler, G. Groeseneken, X. Guo, H. Guo, D. Guzman, R. Hathwar, E. R. Hedin, E. D. Herbschleb, C. Huang, H. Viet Nguyen, Z. Ikonik, 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. Ullis, 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

Adopting the Song of Appearance: An Mental Symphony within **Computational Electronics Computational Electronics**

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