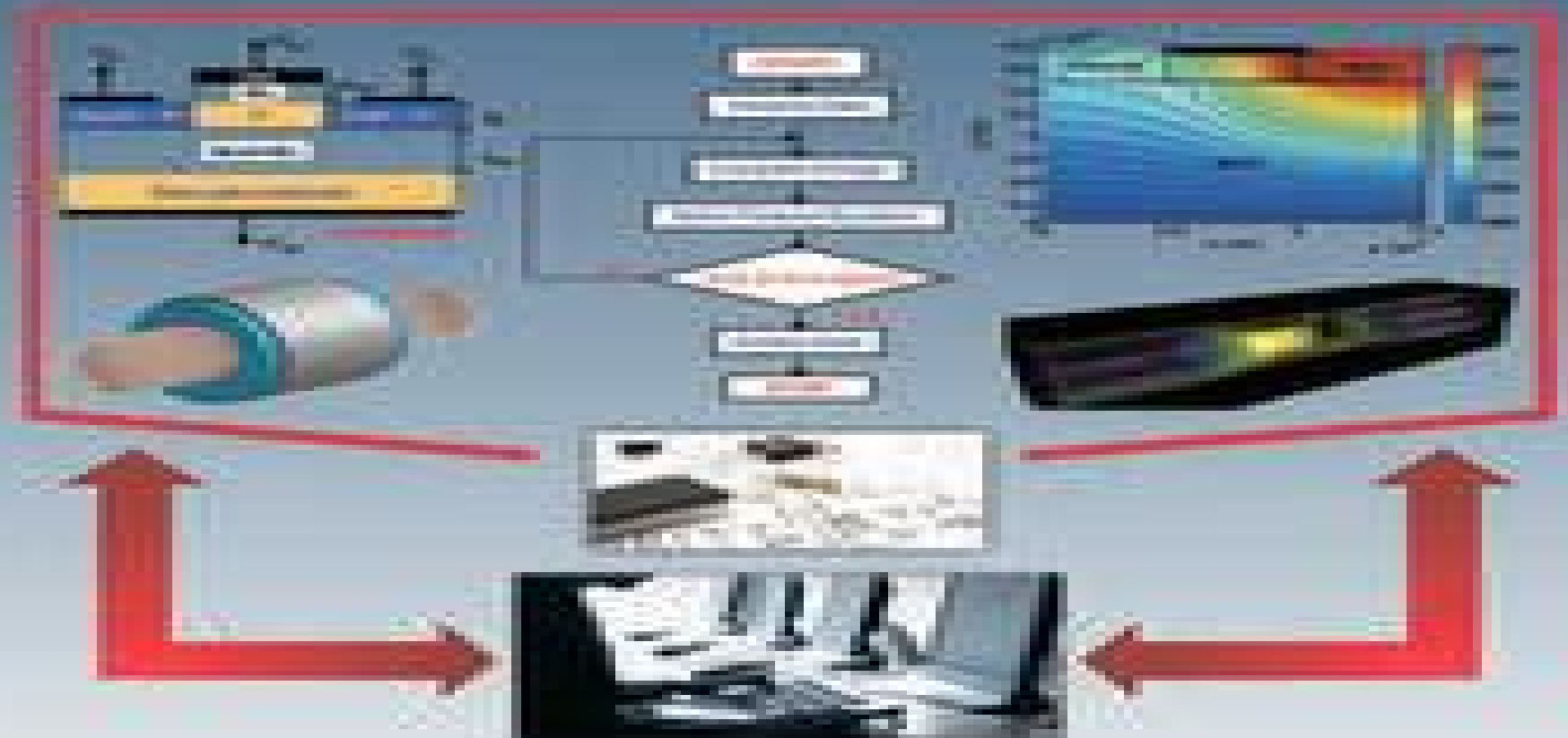


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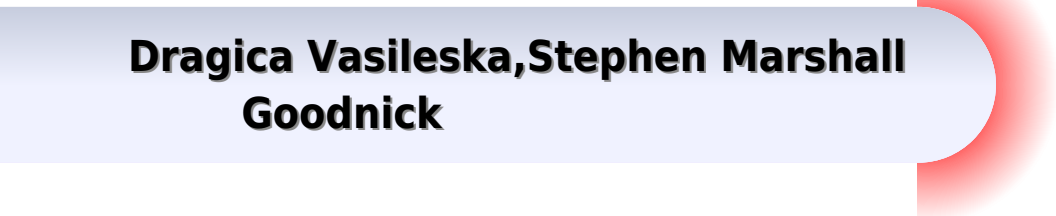
Semi-Classical and Quantum
Device Modeling and Simulation



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

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**Dragica Vasileska, Stephen Marshall
Goodnick**



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Computational Electronics Dragica Vasileska, Stephen Marshall Goodnick, 2002 *Computational Electronics* Dragica Vasileska, Stephen M. Goodnick, Gerhard Klimeck, 2017-12-19 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 the art nanoscale devices The first part examines semiclassical transport methods including drift diffusion hydrodynamic and Monte Carlo methods for solving the Boltzmann transport equation Details regarding numerical implementation and sample codes are provided as templates for sophisticated simulation software The second part introduces the density gradient method quantum hydrodynamics and the concept of effective potentials used to account for quantum mechanical space quantization effects in particle based simulators Highlighting the need for quantum transport approaches it describes various quantum effects that appear in current and future devices being mass produced or fabricated as a proof of concept In this context it introduces the concept of effective potential used to approximately include quantum mechanical space quantization effects within the semiclassical particle based device simulation scheme Addressing the practical aspects of computational electronics this authoritative resource concludes by addressing some of the open questions related to quantum transport not covered in most books Complete with self study problems and numerous examples throughout this book supplies readers with the practical understanding required to create their own simulators 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 *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.
 Afzalian,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. Grasser,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. 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.
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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
 - Computational Electronics Computational Electronics Public Domain eBooks
 - 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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