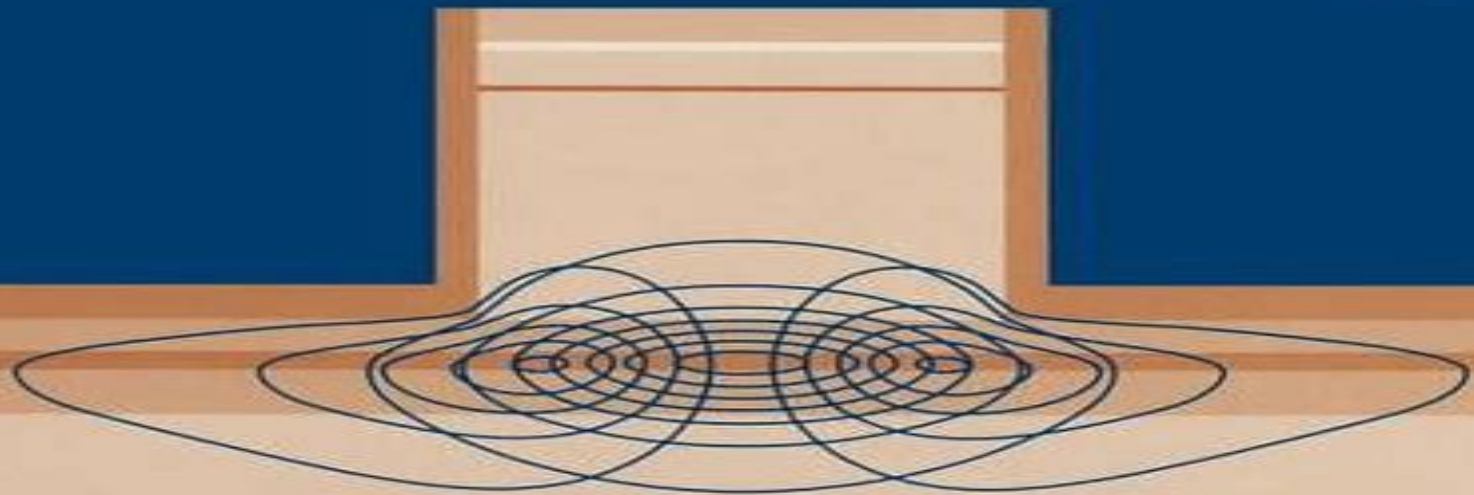


OPTOELECTRONIC DEVICES

Advanced Simulation and Analysis



JOACHIM PIPREK

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Optoelectronic Devices Advanced Simulation And Analysis

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Electrically Driven Quantum Dot Based Single-Photon Sources Markus Kantner,2020-01-25 Semiconductor quantum optics is on the verge of moving from the lab to real world applications When stepping from basic research to new technologies device engineers will need new simulation tools for the design and optimization of quantum light sources which combine classical device physics with cavity quantum electrodynamics This thesis aims to provide a holistic description of single photon emitting diodes by bridging the gap between microscopic and macroscopic modeling approaches The central result is a novel hybrid quantum classical model system that self consistently couples semi classical carrier transport theory with open quantum many body systems This allows for a comprehensive description of quantum light emitting diodes on multiple scales It enables the calculation of the quantum optical figures of merit together with the simulation of the spatially resolved current flow in complex multi dimensional semiconductor device geometries out of one box The hybrid system is shown to be consistent with fundamental laws of non equilibrium thermodynamics and is demonstrated by numerical simulations of realistic devices

Nitride Semiconductor Devices Joachim Piprek,2007-06-27 This is the first book to be published on physical principles mathematical models and practical simulation of GaN based devices Gallium nitride and its related compounds enable the fabrication of highly efficient light emitting diodes and lasers for a broad spectrum of wavelengths ranging from red through yellow and green to blue and ultraviolet Since the breakthrough demonstration of blue laser diodes by Shuji Nakamura in 1995 this field has experienced tremendous growth worldwide Various applications can be seen in our everyday life from green traffic lights to full color outdoor displays to high definition DVD players In recent years nitride device modeling and simulation has gained importance and advanced software tools are emerging Similar developments occurred in the past with other semiconductors such as silicon where computer simulation is now an integral part of device development and fabrication This book presents a review of modern device concepts and models written by leading researchers in the field It is intended for scientists and device engineers who are interested in employing computer simulation for nitride device design and analysis Scientific Computing in Electrical Engineering SCEE 2008

Luis R.J. Costa, Janne Roos, 2010-06-14 This book is a collection of 65 selected papers presented at the 7th International Conference on Scientific Computing in Electrical Engineering SCEE held in Espoo Finland in 2008 The aim of the SCEE 2008 conference was to bring together scientists from academia and industry e.g. mathematicians, electrical engineers, computer scientists and physicists with the goal of intensive discussions on industrially relevant mathematical problems with an emphasis on modeling and numerical simulation of electronic circuits and devices, electromagnetic fields and coupled problems This extensive reference work is divided into five parts: 1 Computational electromagnetics 2 Circuit simulation 3 Coupled problems 4 Mathematical and computational methods and 5 Model order reduction Each part starts with a general introduction followed by the actual papers

Physics and Applications of Optoelectronic Devices Joachim Piprek, 2004 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

Advances in Semiconductor Lasers, 2012-06-12 Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors, editors and contributors Originally widely known as the Willardson and Beer Series it has succeeded in publishing numerous landmark volumes and chapters The series publishes timely highly relevant volumes intended for long term impact and reflecting the truly interdisciplinary nature of the field The volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists, chemists, materials scientists and device engineers in academia, scientific laboratories and modern industry The series publishes timely highly relevant volumes intended for long term impact and reflecting the truly interdisciplinary nature of the field

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Mathematics – Key Technology for the Future Willi Jäger, Hans-Joachim Krebs, 2008-04-10 This book is about the results of a number of projects funded by the BMBF in the initiative Mathematics for Innovations in Industry and Services It shows that a broad spectrum of analytical and numerical mathematical methods and programming techniques are used to solve a lot of different specific industrial or services problems The main focus is on the fact that the mathematics used is not usually standard mathematics or black box mathematics but is specifically developed for specific industrial or services problems Mathematics is more than a tool box or an ancillary science for other scientific disciplines or users Through this book the reader will gain insight into the details of mathematical modeling and numerical simulation for a lot of industrial applications

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Computing and Optimization Raimondas Ciegis, David Henty, Bo Kågström, Julius Žilinskas, 2008-10-08 Parallel Scientific Computing and Optimization introduces new developments in the construction analysis and implementation of parallel computing algorithms This book presents 23 self contained chapters including survey chapters and surveys written by distinguished researchers in the field of parallel computing Each chapter is devoted to some aspects of the subject parallel algorithms for matrix computations parallel optimization management of parallel programming models and data with the largest focus on parallel scientific computing in industrial applications This volume is intended for scientists and graduate students specializing in computer science and applied mathematics who are engaged in parallel scientific computing

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