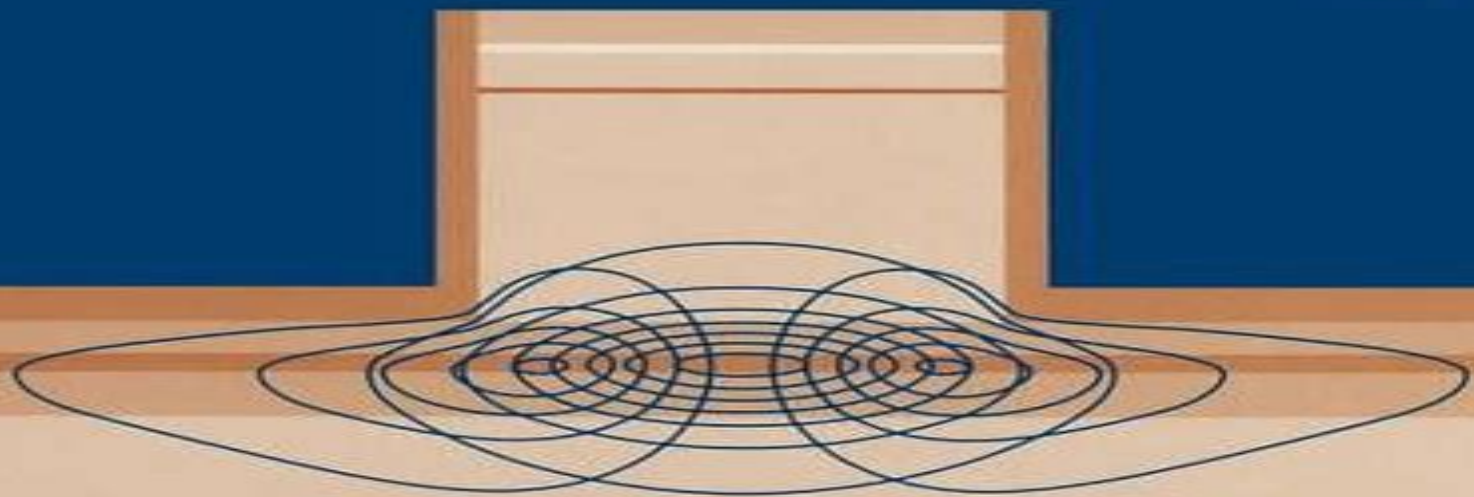


OPTOELECTRONIC DEVICES

Advanced Simulation and Analysis



JOACHIM PIPREK

Editor



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Optoelectronic Devices Advanced Simulation And Analysis

Joachim Piprek



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Handbook of Optoelectronic Device Modeling and Simulation Joachim Piprek, 2017-10-12 Optoelectronic devices are now ubiquitous in our daily lives from light emitting diodes LEDs in many household appliances to solar cells for energy This handbook shows how we can probe the underlying and highly complex physical processes using modern mathematical models and numerical simulation for optoelectronic device design analysis and performance optimization It reflects the wide availability of powerful computers and advanced commercial software which have opened the door for non specialists to perform sophisticated modeling and simulation tasks The chapters comprise the know how of more than a hundred experts from all over the world The handbook is an ideal starting point for beginners but also gives experienced researchers the opportunity to renew and broaden their knowledge in this expanding field

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WDM Systems and Networks Neophytos Neo Antoniadou, Georgios Ellinas, Ioannis Roudas, 2011-12-07 Modeling Simulation Design and Engineering of WDM Systems and Networks provides readers with the basic skills concepts and design techniques used to begin design and engineering of optical communication systems and networks at various layers The latest semi analytical system simulation techniques are applied to optical WDM systems and networks and a review of the various current areas of optical communications is presented Simulation is mixed with experimental verification and engineering to present the industry as well as state of the art research This contributed volume is divided into three parts accommodating different readers interested in various types of networks and applications The first part of the book presents modeling approaches and simulation tools mainly for the physical layer including transmission effects devices subsystems and systems whereas the second part features more engineering design issues for various types of optical systems including ULH access and in building systems The third part of the book covers networking issues related to the design of provisioning and survivability algorithms for impairment aware and multi domain networks Intended for professional scientists company engineers and university researchers the text demonstrates the effectiveness of computer aided design when it comes to network engineering and prototyping

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

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

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

Photonics Modelling and Design Slawomir Sujecki, 2018-09-03 Photonics Modeling and Design delivers a concise introduction to the modeling and design of photonic devices Assuming a general knowledge of photonics and the operating principles of fibre and semiconductor lasers this book Describes the analysis of the light propagation in dielectric media Discusses heat diffusion and carrier transport Applies the presented theory to develop fibre and semiconductor laser models Addresses the propagation of short optical pulses in optical fibres Puts all modeling into practical context with examples of devices currently in development or on the market Providing hands on guidance in the form of MATLAB scripts tips and other downloadable content Photonics Modeling and Design is written for students and professionals interested in modeling photonic devices either for gaining a deeper understanding of the operation or to optimize the design

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 an general introduction followed by the actual papers

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Optoelectronic Device Modeling and Simulation (Two-Volume Set) Joachim Piprek, 2017 Optoelectronic devices are now ubiquitous in our daily lives from light emitting diodes LEDs in many household appliances to solar cells for energy This handbook shows how we can probe the underlying and highly complex physical processes using modern mathematical models and numerical simulation for optoelectronic device design analysis and performance optimization It reflects the wide availability of powerful computers and advanced commercial software which have opened the door for non specialists to perform sophisticated modeling and simulation tasks The chapters comprise the know how of more than a hundred experts from all over the world The handbook is an ideal starting point for beginners but also gives experienced researchers the opportunity to renew and broaden their knowledge in this expanding field Provided by publisher **Layered**

Nanomaterials for Solution-Processed Optoelectronics Manjeet Singh, Ashish Kumar Singh, Balaram Pani, 2025-03-17 This book will provide different strategies and deliberate engineering concepts for the processing and application of advanced nanomaterials with layered structures for optoelectronic devices to enable device production at an industrial scale Layered Nanomaterials for Solution Processed Optoelectronics provides exhaustive state of the art knowledge centered on the various two dimensional 2D nanomaterials and their different types of applications in optoelectronic device fabrication The first few chapters focus on the processing and application of the 2D MXene in devices for energy conversion and storage Then there is discussion on 2D perovskite based nanomaterials for fabrication of photovoltaic devices and flexible light emitting diodes The readers will gain insight into large area fabrication methods of flexible devices using advanced nanomaterials with layered structures such as graphene conjugated COFs 2D hBN hexagonal boron nitride silicene 2D polymers transition metal dichalcogenides and black phosphorous Each chapter discusses the strategies and challenges for applications of layered nanomaterials in optoelectronics This book is intended for graduate students researchers and engineers working in the area of advanced nanomaterials energy conversion energy storage sensors and different types of optoelectronic devices *Advances in Semiconductor Lasers* James J Coleman, A. Catrina Bryce, Chennupati

Jagadish, 2012-05-02 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer Series as it is widely known has succeeded in publishing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series

Physics and Simulation of Optoelectronic Devices, 1999 **Parallel Scientific 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 Ultrafast Lasers Based on Quantum Dot Structures Edik U. Rafailov, Maria Ana Cataluna, Eugene A. Avrutin, 2011-04-08 In this monograph the authors address the physics and engineering together with the latest achievements of efficient and compact ultrafast lasers based on novel quantum dot structures and devices Their approach encompasses a broad range of laser systems while taking into consideration not only the physical and experimental aspects but also the much needed modeling tools thus providing a holistic understanding of this hot topic **Optoelectronic Devices** Xun Li, 2009-06-11 Get hands on experience of optoelectronic device design and simulation using numerical methods *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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