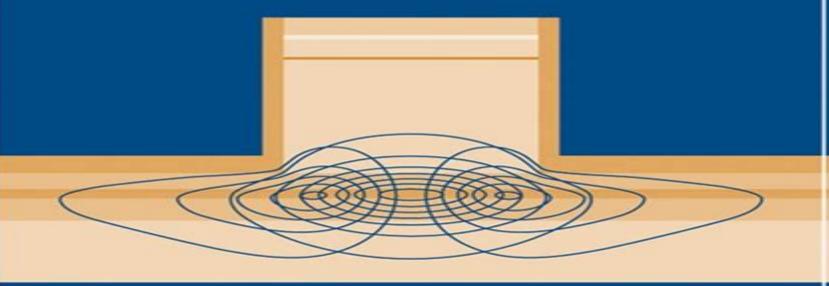
OPTOELECTRONIC DEVICES

Advanced Simulation and Analysis



JOACHIM PIPREK

Editor



Optoelectronic Devices Advanced Simulation And Analysis

Ying Liu

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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 **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 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 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 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 ancilarry 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 Optoelectronic Devices and

Properties Oleg Sergiyenko, 2011-04-19 Optoelectronic devices impact many areas of society from simple household appliances and multimedia systems to communications computing spatial scanning optical monitoring 3D measurements and medical instruments This is the most complete book about optoelectromechanic systems and semiconductor optoelectronic devices it provides an accessible well organized overview of optoelectronic devices and properties that emphasizes basic 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 Transport of Information-Carriers in Semiconductors and Nanodevices El-Saba, Muhammad, 2017-03-31 Rapid developments in technology have led to enhanced electronic systems and applications When utilized correctly these can have significant impacts on communication and computer systems Transport of Information Carriers in Semiconductors and Nanodevices is an innovative source of academic material on transport modelling in semiconductor material and nanoscale devices Including a range of perspectives on relevant topics such as charge carriers semiclassical transport theory and organic semiconductors this is an ideal publication for engineers researchers academics professionals and practitioners interested in emerging developments on transport equations that govern information carriers

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