

Rate equations in semiconductor electronics

J.E. CARROLL



Rate Equations In Semiconductor Electronics

Hari Singh Nalwa



Rate Equations In Semiconductor Electronics:

Rate Equations in Semiconductor Electronics John E. Carroll, J. E. Carroll, 1990-03-30 This book presents a novel approach to the teaching of dynamic aspects of the operation of semiconductor and optoelectronic devices. Such dynamic aspects often determine the steady state conditions. Also the dynamical operation of such devices is of increasing importance as modern methods of communicating data and information require electronic devices that switch electrical or optical signals at ever faster rates. The author discusses the rates at which electrons and holes can reach equilibrium, the rates at which transistors and diodes can switch and the rates at which electrons and holes can interact with photons and with protons. He also applies the rate equations in a unified way to models of light emitting diodes, injection lasers and photodiodes. Finally the author discusses more advanced topics on the photon statistics of injection lasers, mode locking and the application of rate equations and Maxwell's equations to optoelectronic devices.

Rate Equations in Semiconductors Electronics John Edward Carroll, 1985

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.

[Electronic Processes in Organic Semiconductors](#) Anna Köhler, Heinz Bässler, 2026-01-12

Ideal resource for learning about the fundamentals of organic semiconductors and their device applications with minimal prior knowledge. Assuming only basic knowledge of excitations in molecules and semiconductors, *Electronic Processes in Organic Semiconductors* comprehensively explains the electronic structure of organic semiconductors, the flow of charges and the nature of excited states and the intricacies of the electronic and optical processes. The text is complemented by feature boxes detailing aspects that may be trivial to one group of readers yet fully unknown to another, as the book is intended for chemists, physicists, material scientists, engineers and biologists alike. The book is structured into four chapters. Chapter one introduces the reader to basic concepts of molecular photophysics. Chapter two explores how interactions between chromophores affect charges and excited states. Chapter three delineates the processes that are relevant to optoelectronic devices. Chapter four discusses how charge carrier transport, recombination and exciton dissociation can be employed in the operation of organic semiconductor devices. This newly revised and updated Second Edition responds to the development of novel material classes and the increase in bioelectronic applications. It reflects the advanced insight on electronic structure, charge transport, excitonic processes and the key role played by film morphology in this. Sample topics covered in *Electronic Processes in Organic Semiconductors* include

Electronic vibrational and spin factors in transitions between molecular states Experimental methods to study charge transport and excited states comprising spectroscopic techniques as well as device based measurements Mechanisms of charge generation and transport in undoped and doped systems Properties of excitations in single compound materials donor acceptor systems and host guest systems Basics of device fabrication for solar cells light emitting diodes and transistors operational principles performance assessment and approaches for further improvement Written in a way that makes understanding of organic semiconductors easy even for the uninitiated the Second Edition of Electronic Processes in Organic Semiconductors continues to be the go to resource for students intending to learn about organic semiconductors It also serves as key reference for scientists from adjacent fields that need information on a particular aspect of organic semiconductors

Optoelectronic Integrated Circuit Design and Device Modeling Jianjun Gao, 2011-09-19 In Optoelectronic Integrated Circuit Design and Device Modeling Professor Jianjun Gao introduces the fundamentals and modeling techniques of optoelectronic devices used in high speed optical transmission systems Gao covers electronic circuit elements such as FET HBT MOSFET as well as design techniques for advanced optical transmitter and receiver front end circuits The book includes an overview of optical communication systems and computer aided optoelectronic IC design before going over the basic concept of laser diodes This is followed by modeling and parameter extraction techniques of lasers and photodiodes Gao covers high speed electronic semiconductor devices optical transmitter design and optical receiver design in the final three chapters Addresses a gap within the rapidly growing area of transmitter and receiver modeling in OEICs Explains diode physics before device modeling helping readers understand their equivalent circuit models Provides comprehensive explanations for E O and O E conversions done with laser and photodiodes Covers an extensive range of devices for high speed applications Accessible for students new to microwaves Presentation slides available for instructor use This book is primarily aimed at practicing engineers researchers and post graduates in the areas of RF microwaves IC design photonics and lasers and solid state devices The book is also a strong supplement for senior undergraduates taking courses in RF and microwaves Lecture materials for instructors available at www.wiley.com/go/gao

Handbook of Advanced Electronic and Photonic Materials and Devices: Semiconductor devices Hari Singh Nalwa, 2001 Electronic and photonic materials discussed in this handbook are the key elements of continued scientific and technological advances in the 21st century The electronic and photonic materials comprising this handbook include semiconductors superconductors ferroelectrics liquid crystals conducting polymers organic and superconductors conductors nonlinear optical and optoelectronic materials electrochromic materials laser materials photoconductors photovoltaic and electroluminescent materials dielectric materials nanostructured materials supramolecular and self assemblies silicon and glasses photosynthetic and respiratory proteins etc etc Some of these materials have already been used and will be the most important components of the semiconductor and photonic industries computers internet information processing and storage telecommunications

satellite communications integrated circuits photocopiers solar cells batteries light emitting diodes liquid crystal displays magneto optic memories audio and video systems recordable compact discs video cameras X ray technology color imaging printing flat panel displays optical waveguides cable televisions computer chips molecular sized transistors and switches as well as other emerging cutting edge technologies Electronic and photonic materials are expected to grow to a trillion dollar industry in the new millennium and will be the most dominating forces in the emerging new technologies in the fields of science and engineering This handbook is a unique source of the in depth knowledge of synthesis processing fabrication spectroscopy physical properties and applications of electronic and photonic materials covering everything for today s and developing future technologies This handbook consists of over one hundred state of the art review chapters written by more than 200 world leading experts from 25 different countries With more than 23 000 bibliographic citations and several thousands of figures tables photographs chemical structures and equations this handbook is an invaluable major reference source for scientists and students working in the field of materials science solid state physics chemistry electrical and optical engineering polymer science device engineering and computational engineering photophysics data storage and information technology and technocrats everyone who is involved in science and engineering of electronic and photonic materials

Key Features This is the first handbook ever published on electronic and photonic materials 10 volumes summarize the advances in electronic and photonic materials made over past the two decades This handbook is a unique source of the in depth knowledge of synthesis processing spectroscopy physical properties and applications of electronic and photonic materials Over 100 state of the art review chapters written by more than 200 leading experts from 25 different countries About 25 000 bibliographic citations and several thousand figures tables photographs chemical structures and equations Easy access to electronic and photonic materials from a single reference Each chapter is self contained with cross references Single reference having all inorganic organic and biological materials Witten in very clear and concise fashion for easy understanding of structure property relationships in electronic and photonic materials

Physics and Simulation of Optoelectronic Devices ,2001 **Physics of Semiconductor Devices** J.-P. Colinge,C.A. Colinge,2005-10-03 Physics of Semiconductor Devices covers both basic classic topics such as energy band theory and the gradual channel model of the MOSFET as well as advanced concepts and devices such as MOSFET short channel effects low dimensional devices and single electron transistors Concepts are introduced to the reader in a simple way often using comparisons to everyday life experiences such as simple fluid mechanics They are then explained in depth and mathematical developments are fully described Physics of Semiconductor Devices contains a list of problems that can be used as homework assignments or can be solved in class to exemplify the theory Many of these problems make use of Matlab and are aimed at illustrating theoretical concepts in a graphical manner

Journal of the Institution of Electronics and Telecommunication Engineers ,1996
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Stumpf,1983 *Modeling of Photoconductor Detector Response to 14 MeV Neutrons* Sung-su Han,1989

Computer-aided Analysis of Nonlinear Microwave Circuits Paulo J. C. Rodrigues,1998 This comprehensive new book helps fortify your understanding of the most popular time and frequency domain techniques used to analyze nonlinear microwave circuits and shows you how to get better performance from these techniques using circuit analysis software

Quantum Electronics ,1993 Quantum Electronics is the English edition of the Russian journal Kvantova Elektronika a leading journal in all aspects of laser research founded in 1971 Published research papers are on topics which include Laser Active Media Interaction of Laser Radiation with Matter Laser Plasma Non linear Optical Phenomena Quantum Electronic Devices Optical Processing of Information Laser Applications and Other Topics in Quantum Electronics International Journal of Electrical Engineering Education ,1990 *Physics of Semiconductor Devices* Vikram Kumar,S. K. Agarwal,2000

Standard Handbook of Electronic Engineering, 5th Edition Donald Christiansen,Charles Alexander,Ronald K. Jurgen,2005 The Standard Handbook of Electronics Engineering has defined its field for over thirty years Spun off in the 1960 s from Fink s Standard Handbook of Electrical Engineering the Christiansen book has seen its markets grow rapidly as electronic engineering and microelectronics became the growth engine of digital computing The EE market has now undergone another seismic shift away from computing and into communications and media The Handbook will retain much of its evergreen basic material but the key applications sections will now focus upon communications networked media and medicine the eventual destination of the majority of graduating EEs these days **European Quantum Electronics Conference** ,2003 **Physics Briefs** ,1993 *Semiconductor Devices* Kevin M. Kramer,W. Nicholas G. Hitchon,1997 CD ROM contains Win32 version of SGFramework and the simulations contains in the book

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