

Semiconductor laser rate equations

- Rate equations relate the optical output power, or # of photons per unit volume, Φ , to the diode drive current or # of injected electrons per unit volume, n . For active (carrier confinement) region of depth d , the rate equations are:

$$\frac{d\Phi}{dt} = Cn\Phi + R_{sp} - \frac{\Phi}{\tau_{ph}}$$

Photon rate = stimulated emission + spontaneous emission + photon loss [4-25]

$$\frac{dn}{dt} = \frac{J}{qd} - \frac{n}{\tau_{sp}} - Cn\Phi$$

electron rate = injection + spontaneous recombination + stimulated emission

C : Coefficient expressing the intensity of the optical emission & absorption process

R_{sp} : rate of spontaneous emission into the lasing mode

τ_{ph} : photon life time

J : Injection current density

Rate Equations In Semiconductor Electronics

John Edward Carroll



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.

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.

Rate Equations in Semiconductors Electronics John Edward Carroll, 1985 **Quantum Processes in Polar Semiconductors and Insulators** Harald Stumpf, 2013-03-09 **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 Physics and Simulation of Optoelectronic Devices, 1996 **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

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Physics Briefs, 1993 **European Quantum Electronics Conference**, 2003 **Computational Electronics Technical Report**, 1991 **Physical Models for Semiconductor Devices** John E. Carroll, 1974

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