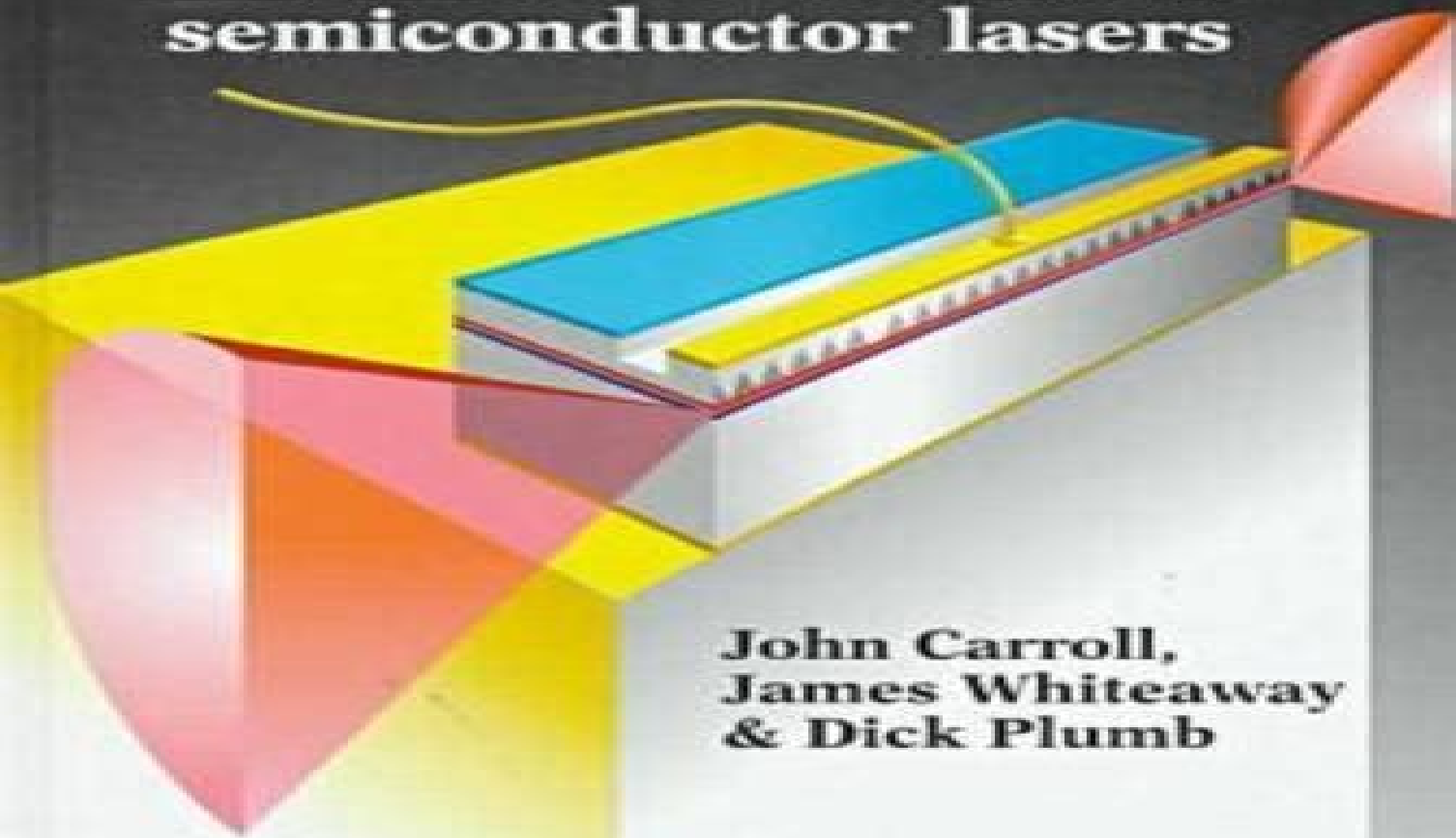




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# Distributed feedback semiconductor lasers



**John Carroll,  
James Whiteaway  
& Dick Plumb**

# Distributed Feedback Semiconductor Lasers Iee Circuits Devices Systems Series No 1

**Jiyuan Zhang**



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Distributed Feedback Semiconductor Lasers John E. Carroll, James Whiteaway, Dick Plumb, 1998 Concentrating on presenting a thorough analysis of DFB lasers from a level suitable for research students this book emphasises and gives extensive coverage of computer aided modeling techniques

**Radio Over Fiber Technologies for Mobile Communications Networks** Hamed Al-Raweshidy, Shozo Komaki, 2002 Over the past decade there have been massive advances in the areas of mobile and optical fiber communications This unique book shows you how to combine these methods to create new radio over fiber technologies that offer seamless operation and greater multimedia application potential for your current and third generation mobile communication networks

**Semiconductor Laser Diode** Dnyaneshwar Patil, 2012-04-25 This book represents a unique collection of the latest developments in the rapidly developing world of semiconductor laser diode technology and applications An international group of distinguished contributors have covered particular aspects and the book includes optimization of semiconductor laser diode parameters for fascinating applications This collection of chapters will be of considerable interest to engineers scientists technologists and physicists working in research and development in the field of semiconductor laser diode as well as to young researchers who are at the beginning of their career

**Principles Of Semiconductor Laser Diodes And Amplifiers: Analysis And Transmission Line Laser Modeling** Hooshang Ghafouri-shiraz, 2003-12-15 Optical communications technology is growing increasingly in importance with a rapid pace of development Innovative optical devices have emerged from the integration of semiconductor laser diodes amplifiers and filters with optical waveguide technology This well researched volume traces the evolution of semiconductor laser amplifiers SLAs from these technologies Focusing on the principle applications of SLAs the author illustrates the growing importance of these functional components in the future of optical communications systems This book will provide engineering and science students with a basic understanding of laser diode and optical amplification through the analysis of the performance characteristics of these devices both in theory and application Practising device engineers wishing to consolidate their knowledge in lightwave technology will also find this book an invaluable reference a

*OFC/NFOEC: Thursday, March 10, 2005*, 2005 An Introduction to Microelectromechanical Systems Engineering Nadim Maluf, Kirt Williams, 2004 Bringing you up to date with the latest developments in MEMS technology this major revision of the best selling An Introduction to Microelectromechanical Systems Engineering offers you a current understanding of this cutting edge technology You gain practical knowledge of MEMS materials design and manufacturing and learn how it is being applied in industrial optical medical and electronic markets The second edition features brand new sections on RF MEMS photo MEMS micromachining on materials other than silicon reliability analysis plus an expanded reference list With an emphasis on commercialized products this unique resource helps you determine whether your application can benefit from a MEMS solution understand how other applications and companies have benefited from MEMS

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**Distributed Feedback Laser Diodes** Dr. H. Ghafouri-Shiraz, B. S. K. Lo, 1996-08-06  
Distributed Feedback Laser Diodes Principles and Physical Modelling H Ghafouri Shiraz B S K Lo University of Birmingham UK Advances in optical fibre based communications systems have played a crucial role in the development of the information highway By offering a single mode oscillation and narrow spectral output distributed feedback DFB semiconductor laser diodes offer an excellent optical light source for fibre based communication systems This comprehensive text focuses on the basic working principles of DFB laser diodes and details the development of a new technique for enhanced system performance Considers the optical waveguiding characteristics and properties of semiconductor materials and the physics of DFB semiconductor lasers Presents a powerful modelling technique based on the transfer matrix method which can be used to improve the design of laser diodes optical filters and amplifiers Examines the effect of the various corrugation shapes on the coupling coefficients and lasing characteristics of DFB laser diodes Technical advice to improve immunity against the spatial hole burning effect Extensive referencing throughout and a comprehensive glossary of symbols and abbreviations Distributed Feedback Laser Diodes is an indispensable text for senior students of electrical and electronic engineering and physics and will consolidate their knowledge in this rapidly growing field As a technical guide for the structural design of DFB laser diodes it will serve as an invaluable reference for researchers in optoelectronics and semiconductor and device physics

Principles of Optical Circuit Engineering Mark Mentzer, 1990-07-18 Examines the devices physical phenomena and component technologies that facilitate diverse optical systems functions Considers production and commercial aspects of microelectronic communication computing signal processing and sensing systems Presents design guidelines for optical circuits

**Di** **Optoelectronic Devices** Joachim Piprek, 2006-01-26 Optoelectronic devices transform electrical signals into optical signals and vice versa by utilizing the interaction of electrons and light Advanced software tools for the design and analysis of such devices have been developed in recent years However the large variety of materials devices physical mechanisms and modeling approaches often makes it difficult to select appropriate theoretical models or software packages This book presents a review of devices and advanced simulation approaches written by leading researchers and software developers It is intended for scientists and device engineers in optoelectronics who are interested in using advanced software tools Each chapter includes the theoretical background as well as practical simulation results that help the reader to better understand internal device physics Real world devices such as edge emitting or surface emitting laser diodes light emitting

diodes solar cells photodetectors and integrated optoelectronic circuits are investigated The software packages described in the book are available to the public on a commercial or noncommercial basis so that the interested reader is quickly able to perform similar simulations Proceedings of the ... IEEE International Caracas Conference on Devices, Circuits and Systems ,2002      **The British National Bibliography** Arthur James Wells,1998      **Photonic Devices for Telecommunications** George Guekos,2012-12-06 This book is subdivided into three main Parts The common spirit in these parts is to provide at the beginning of each a comprehensive introduction into the subject treated followed by specific aspects pertaining to the modelling and or measuring particularities arising from the investigation of photonic devices for telecommunications Some of the devices treated here can be considered as widely known and well established Others are rather new and their potential for applications is not yet fully exploited The methods to model and measure photonic in this book and the comparison of results obtained devices and structures outlined by applying such methods are likely to interest both the engineer investigating the of a device in a system and the engineer looking for new ways to explore behaviour the possibilities offered by emerging devices Many authors have contributed to this book There are two main reasons for this in photonic device research modelling First the book addresses two broad fields and measurements for which a vast knowledge exists in many research groups that was not integrated in a book before Second a significant number of laboratories decided to closely co operate in order to gain additional information on merits and drawbacks of their own methods for simulation and experimentation of devices as compared to the methods used by their colleagues in other laboratories The outcome are new aspects and approaches that would not have been investigated in the absence of a framework for a co operative programme      **Electrical & Electronics Abstracts** ,1997      **Neuromorphic Photonics** Paul R. Prucnal,Bhavin J. Shastri,2017-05-08 This book sets out to build bridges between the domains of photonic device physics and neural networks providing a comprehensive overview of the emerging field of neuromorphic photonics It includes a thorough discussion of evolution of neuromorphic photonics from the advent of fiber optic neurons to today s state of the art integrated laser neurons which are a current focus of international research Neuromorphic Photonics explores candidate interconnection architectures and devices for integrated neuromorphic networks along with key functionality such as learning It is written at a level accessible to graduate students while also intending to serve as a comprehensive reference for experts in the field

**Introduction to Lightwave Communication Systems** Rajappa Papannareddy,1997 The promise of the on line communications revolution is widely acknowledged but not yet fulfilled Broader access to optical fiber systems holds the key to future success and their superior transmission capabilities will provide the true gateway to the information superhighway Introduction to Lightwave Communication Systems covers the cutting edge of this critically important technology and provides an excellent technical grounding in the field      **IEEE Circuits & Devices** ,1995      **Optical Fibres and Sources for Communications** M.J. Adams,I.D. Henning,2013-11-11 In the last few years the subject of optical communications has

moved rapidly from being a promising research area to a practical reality already being installed and carrying traffic in trunk networks in many countries. At the same time new applications for fibre technology are emerging and are placing new demands on the system components. In telecommunications there is a steady increase of interest in the use of fibres for undersea cables in local area networks and wideband links and a little further ahead the possibility of coherent communications systems. With an optical carrier bandwidth of 200 THz today's maximum bit rates of the order of Gb/s do not approach the limits of the medium and questions about the ultimate limits of optical communications are already being asked. On a different front the rapid advance of fibre sensors previously drawing heavily on the communications technology is becoming a major driving force in the development of fibres and other components. This picture of dramatic growth in optical technology gives rise to other phenomena. A profusion of small companies mushrooms to meet the demands of specific market areas each such company formed around a nucleus of experienced personnel from the established research groups. Multi-nationals jostle for position in the optoelectronics marketplace and price wars develop as fibre costs fall. University groups expand with government and industrial funding in attempts to maintain long term research options and produce trained personnel.

*Optical Fiber Communications and Devices* Moh Yasin, Sulaiman Wadi Harun, Hamzah Arof, 2012-02-01

This book is a collection of works dealing with the important technologies and mathematical concepts behind today's optical fiber communications and devices. It features 17 selected topics such as architecture and topologies of optical networks, secure optical communication, PONs, LANs and WANs and thus provides an overall view of current research trends and technology on these topics. The book compiles worldwide contributions from many prominent universities and research centers bringing together leading academics and scientists in the field of photonics and optical communications. This compendium is an invaluable reference edited by three scientists with a wide knowledge of the field and the community. Researchers and practitioners working in photonics and optical communications will find this book a valuable resource.

IEEE International Conference on Electronics, Circuits and Systems ,2003

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