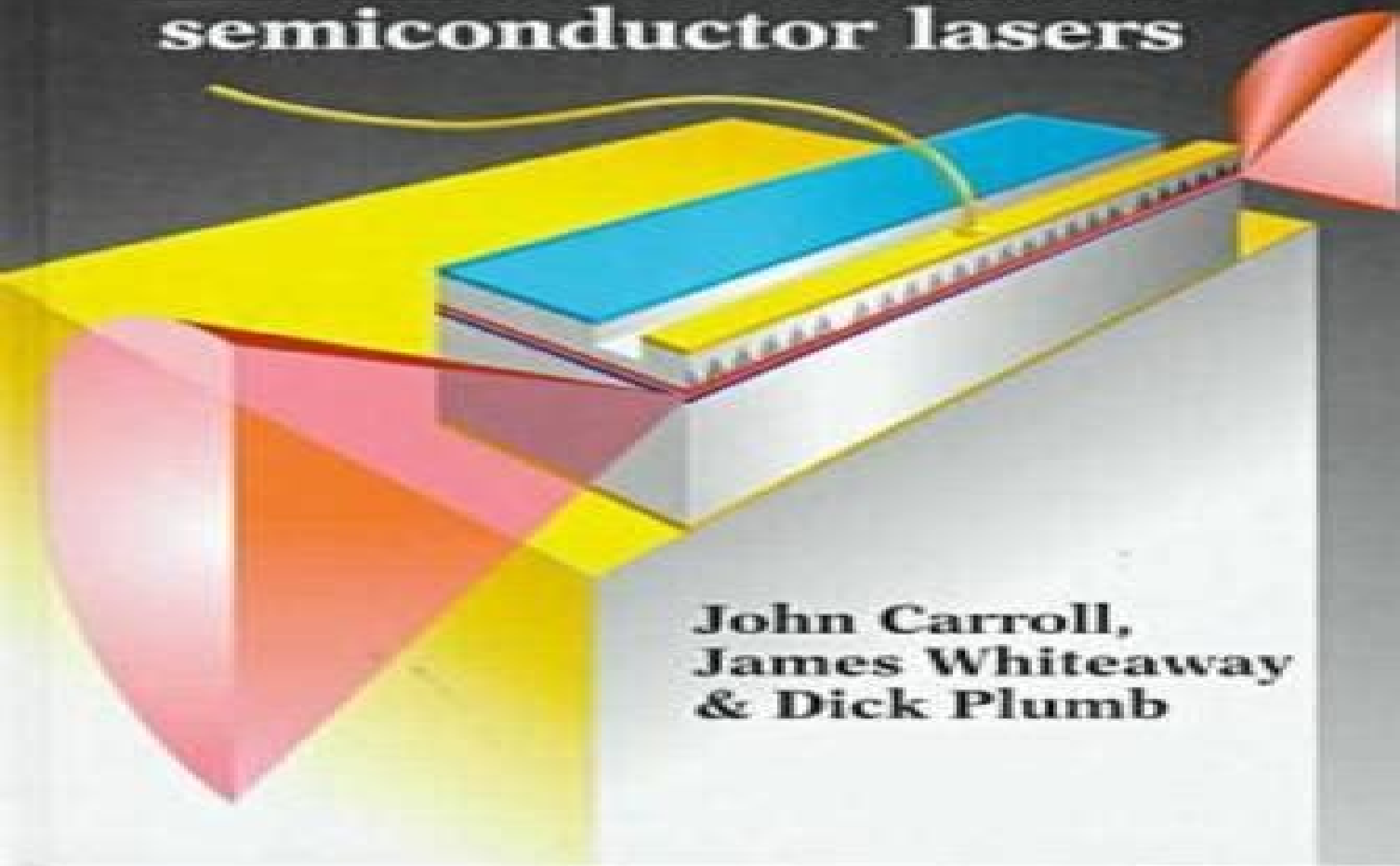




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Distributed feedback semiconductor lasers



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OFC/NFOEC: Thursday, March 10, 2005 ,2005 **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 **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 **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*

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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

Electrical & Electronics Abstracts ,1997 **The British National Bibliography** Arthur James Wells,1998 IEEE Circuits & Devices ,1995 **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

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