



# Distributed Feedback Semiconductor Lasers Operating In

**Klaus Petermann**



## **Distributed Feedback Semiconductor Lasers Operating In:**

*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

*Distributed Feedback Laser Diodes and Optical Tunable Filters* Dr. H. Ghafouri-Shiraz, 2004-02-06 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 excellent optical light sources as well as optical filters for fibre based communications and dense wavelength division multiplexing DWDM systems This comprehensive text focuses on the basic working principles of DFB laser diodes and optical filters 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 fibres 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 Suitable for both introductory and advanced levels This is an indispensable textbook for undergraduate and postgraduate students of electrical and electronic engineering and physics as it consolidates their knowledge in this rapidly growing field As a technical guide for the structural design of DFB laser diodes and optical filters the book will serve as an invaluable reference for researchers in opto electronics and semiconductor device physics

*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

**Handbook of Distributed Feedback Laser Diodes, Second Edition** Geert Morthier, Patrick Vankwikelberge, 2013-09-01 Since the first edition of this book was published in 1997 the photonics landscape has evolved considerably and so has the role of distributed feedback DFB laser diodes Although tunable laser diodes continue to be introduced in advanced optical communication systems DFB laser diodes are still widely applied in many deployed systems This also includes wavelength tunable DFB laser diodes and DFB laser diode arrays usually integrated with intensity or phase modulators and semiconductor optical amplifiers This valuable resource gives professionals a comprehensive description of the different effects that determine the behavior of a DFB laser diode Special attention is given to two new chapters on wavelength tunable DFB laser diodes and bistable and unstable DFB laser diodes Among many other updates throughout the reference semiconductor and electromagnetic professionals are also provided two new appendices This book fully covers the underlying theory commercial applications necessary design criteria and future direction of this technology

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[Dynamics of Distributed Feedback Lasers and Semiconductor Laser Arrays](#) Yuan-Hwang Liao, 1997

**Progress in Optics**, 1988-05-01 Progress in Optics

*Advances in Imaging and Electron Physics*, 1999-04-13 Advances in Imaging Electron Physics merges two long running serials Advances in Electronics Electron Physics and Advances in Optical Electron Microscopy The series features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies

microlithography image science and digital image processing electromagnetic wave propagation electron microscopy and the computing methods used in all these domains

**Nuclear Science Abstracts**, 1975 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1 33 initially created by DOE s predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available

*Modeling of Distributed Feedback Semiconductor Lasers* Meng-Mu Shih, 2010 ABSTRACT This work demonstrates the multi parameter modeling processes of calculating coupling coefficients of the optical waveguide structures for various distributed feedback DFB semiconductor lasers These lasers operate on Near Mid IR and TE TM modes Substrate emitting DFB quantum cascade laser analyzed and performance improvement are discussed

*2nd-order, Surface-emitting Distributed Feedback Diode Lasers* James G. Lopez, 1999

**Laser Diode Modulation and Noise** Klaus Petermann, 1991-04-30 Laser diodes represent a key element in the emerging field of opto electronics which includes for example optical communication optical sensors or optical disc systems For all these applications information is either transmitted stored or read out The performance of these systems depends to a great deal on the performance of the laser diode with regard to its modulation and noise characteristics Since the modulation and noise characteristics of laser diodes are of vital importance for optoelectronic systems the need for a book arises that concentrates on this subject This book thus closes the gap between books on the device physics of semiconductor lasers and books on system design Complementary to the specific topics concerning modulation and noise the first part of this book reviews the basic laser characteristics so that even a reader without detailed knowledge of laser diodes may follow the text In order to understand the book the reader should have a basic knowledge of electronics semiconductor physics and optical communications The work is primarily written for the engineer or scientist working in the field of optoelectronics however since the book is self contained and since it contains a lot of numerical examples it may serve as a textbook for graduate students In the field of laser diode modulation and noise a vast amount has been published during recent years Even though the book contains more than 600 references only a small part of the existing literature is included

**Energy Research Abstracts**, 1979

**Physics and Simulation of Optoelectronic Devices**, 2001

**Journal of Current Laser Abstracts**, 1990

Soviet Journal of Quantum Electronics, 1978

JJAP Letters, 2001

**Applied Science & Technology Index**, 1997

Electrical & Electronics Abstracts, 1997

IEEE Emerging Technologies Symposium, 2001

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