DISTRIBUTED FEEDBACK LASER LASES AND OPTICAL TUNABLE FILTERS

H. GHAFOURI-SHIRAZ



WILEY

<u>Distributed Feedback Laser Diodes And Optical Tunable</u> <u>Filters</u>

Emilie Sanchez

Distributed Feedback Laser Diodes And Optical Tunable Filters:

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 semi conductor device physics 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 Laser Diodes and Their Applications to Communications and Information Processing Takahiro Numai, 2011-03-01 In order to develop excellent photonic devices we have to fully understand the physics behind operations of photonic devices This book thoroughly teaches the fundamental physics currently applied to the development of photonics devices such as energy bands of semiconductors optical transitions optical waveguides and semiconductor junctions The book also reviews the characteristics of laser diodes optical filters and optical functional devices which have been developed based on the above physics These photonic devices have been demonstrated in system applications and several experimental results are described Quantum Dot Lasers on Silicon Bozhang Dong, 2023-02-04 This book provides guidelines and design rules for developing high performance low cost and energy efficient quantum dot QD lasers for silicon photonic integrated circuits PIC optical frequency comb generation and quantum information systems To this end the nonlinear properties and dynamics of QD lasers on silicon are investigated in depth by both theoretical analysis and experiment This book aims at addressing four issues encountered in developing silicon PIC 1 The instability of laser emission caused by the chip scale back reflection During photonic integration the chip scale back reflection is usually responsible for the generation of severe instability i e

coherence collapse from the on chip source As a consequence the transmission performance of the chip could be largely degraded To overcome this issue we investigate the nonlinear properties and dynamics of QD laser on Si in this book to understand how can it be applied to isolator free photonic integration in which the expensive optical isolator can be avoided Results show that the QD laser exhibits a high degree of tolerance for chip scale back reflections in absence of any instability which is a promising solution for isolator free applications 2 The degradation of laser performance at a high operating temperature In this era of Internet of Thing IoT about 40% of energy is consumed for cooling in the data center In this context it is important to develop a high temperature continuous wave CW emitted laser source In this book we introduce a single mode distributed feedback DFB QD laser with a design of optical wavelength detuning OWD By taking advantage of the OWD technique and the high performance QD with high thermal stability all the static and dynamical performances of the QD device are improved when the operating temperature is high This study paves the way for developing uncooled and isolator free PIC 3 The limited phase noise level and optical bandwidth of the laser are the bottlenecks for further increasing the transmission capacity To improve the transmission capacity and meet the requirement of the next generation of high speed optical communication we introduce the QD based optical frequency comb OFC laser in this book Benefiting from the gain broadening effect and the low noise properties of QD the OFC laser is realized with high optical bandwidth and low phase noise We also provide approaches to further improve the laser performance including the external optical feedback and the optical injection 4 Platform with rich optical nonlinearities is highly desired by future integrated quantum technologies In this book we investigate the nonlinear properties and four wave mixing FWM of QD laser on Si This study reveals that the FWM efficiency of QD laser is more than ten times higher than that of quantum well laser which gives insight into developing a QD based silicon platform for quantum states of light generation Based on the results in this book scientists researchers and engineers can come up with an informed judgment in utilizing the QD laser for applications ranging from classical silicon PIC to integrated quantum technologies
Numerical Simulations of Physical and Engineering **Processes** Jan Awrejcewicz, 2011-09-26 Numerical Simulations of Physical and Engineering Process is an edited book divided into two parts Part I devoted to Physical Processes contains 14 chapters whereas Part II titled Engineering Processes has 13 contributions The book handles the recent research devoted to numerical simulations of physical and engineering systems It can be treated as a bridge linking various numerical approaches of two closely inter related branches of science i e physics and engineering Since the numerical simulations play a key role in both theoretical and application oriented research professional reference books are highly needed by pure research scientists applied mathematicians engineers as well post graduate students In other words it is expected that the book will serve as an effective tool in training the mentioned groups of researchers and beyond 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 Handbook of Distributed Feedback Laser Diodes, Second Edition Geert Morthier, Patrick physics 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 semi conductor 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 Dynamics of Distributed Feedback Lasers and Semiconductor Laser Arrays Yuan-Hwang Liao, 1997 **Proceedings of the Fourth Annual Parallel Processing Symposium** Larry H. Canter,1990 **Proceedings of the First International Symposium** on High-Performance Distributed Computing (HPDC-1), September 9-11, 1992, Syracuse, New York IEEE Computer Society, 1992 Addresses issues on the interface between the rapidly evolving fields of parallel and distributed computing From a September 1992 symposium in Syracuse New York some 30 papers discuss such topics as tools and programming paradigm high speed networks and protocols multimedia load balancing and Optical Transmission for the Subscriber Loop Norio Kashima, 1993 A quide to the emerging technologies now being considered for use in tomorrow s fibre subscriber loop systems this book provides a rundown on what the technologies are describes how they work and then shows

how to apply them to increase system performance cut design time and lower costs

Applications: Laser design and laser systems Colin E. Webb, Julian D. C. Jones, 2004

Communications, 1992

Science Abstracts, 1995

Conference Proceedings, 2001

Physics Briefs, 1994

Journal of Current Laser Abstracts, 1990

Optics Letters, 2008

Proceedings, 1992

Sci-tech News, 2004

This book delves into Distributed Feedback Laser Diodes And Optical Tunable Filters. Distributed Feedback Laser Diodes And Optical Tunable Filters is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Distributed Feedback Laser Diodes And Optical Tunable Filters, encompassing both the fundamentals and more intricate discussions.

- 1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Distributed Feedback Laser Diodes And Optical Tunable Filters
 - Chapter 2: Essential Elements of Distributed Feedback Laser Diodes And Optical Tunable Filters
 - Chapter 3: Distributed Feedback Laser Diodes And Optical Tunable Filters in Everyday Life
 - Chapter 4: Distributed Feedback Laser Diodes And Optical Tunable Filters in Specific Contexts
 - ∘ Chapter 5: Conclusion
- 2. In chapter 1, this book will provide an overview of Distributed Feedback Laser Diodes And Optical Tunable Filters. This chapter will explore what Distributed Feedback Laser Diodes And Optical Tunable Filters is, why Distributed Feedback Laser Diodes And Optical Tunable Filters is vital, and how to effectively learn about Distributed Feedback Laser Diodes And Optical Tunable Filters.
- 3. In chapter 2, this book will delve into the foundational concepts of Distributed Feedback Laser Diodes And Optical Tunable Filters. The second chapter will elucidate the essential principles that need to be understood to grasp Distributed Feedback Laser Diodes And Optical Tunable Filters in its entirety.
- 4. In chapter 3, this book will examine the practical applications of Distributed Feedback Laser Diodes And Optical Tunable Filters in daily life. The third chapter will showcase real-world examples of how Distributed Feedback Laser Diodes And Optical Tunable Filters can be effectively utilized in everyday scenarios.
- 5. In chapter 4, this book will scrutinize the relevance of Distributed Feedback Laser Diodes And Optical Tunable Filters in specific contexts. The fourth chapter will explore how Distributed Feedback Laser Diodes And Optical Tunable Filters is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, the author will draw a conclusion about Distributed Feedback Laser Diodes And Optical Tunable Filters. The final chapter will summarize the key points that have been discussed throughout the book.

 This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Distributed Feedback Laser Diodes And Optical Tunable Filters.

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