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Distributed Feedback Lasers

by Dr. Rüdiger Paschotta

Distributed feedback lasers are diode or fiber lasers where the whole laser resonator consists of a periodic structure, in which Bragg reflection occurs.



Theories On Distributed Feedback Lasers

F. V. Bunkin



Theories On Distributed Feedback Lasers:

Theories on Distributed Feedback Lasers Fritz Kurt Kneubühl, 1993 This title presents the theory of distributed feedback including standard linear theories such as the use of complex Hill equations solved by coupled wave theory or Floquet matrices and novel formulations based on non Hermitian spin Hamiltonians and group theory and nonlinear theories involving either the principle of energy conservation or rate equations Attention is also paid to the improvement of nonlinear theories by the study of solitons in periodic structures F K Kneubuhl is a professor at the Swiss Federal Institute of Technology where he works in the Infrared Physics Laboratory

Distributed Feedback Laser Diodes and Optical Tunable Filters H. Ghafouri-Shiraz, 2003-11-07 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

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 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

Semiconductor Laser Theory Prasanta Kumar Basu, Bratati Mukhopadhyay, Rikmantra Basu, 2015-06-17 Developed from the authors classroom tested material Semiconductor Laser Theory takes a semiclassical approach to teaching the principles structure and applications of semiconductor lasers Designed for graduate students in physics electrical engineering and materials science the text covers many recent developments including diode lasers using quantum wells quantum dots quantum cascade lasers nitride lasers group IV lasers and transistor lasers The first half of the book presents basic concepts such as the semiconductor physics needed to understand the operation of lasers p n junction theory alloys heterostructures quantum nanostructures k p theory waveguides resonators filters and optical processes The remainder of the book describes various lasers including double heterostructure quantum wire quantum dot quantum cascade vertical cavity surface emitting single mode and tunable nitride group IV and transistor lasers This textbook equips students to understand the latest progress in the research and development of semiconductor lasers from research into the benefits of quantum wire and quantum dot lasers to the application of semiconductor lasers in fiber optic communications Each chapter incorporates reading lists and references for further study numerous examples to illustrate the theory and problems for hands on exploration 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

Foundations for Guided-Wave Optics Chin-Lin Chen, 2006-12-12 A classroom tested introduction to integrated and fiber optics This text offers an in depth treatment of integrated and fiber optics providing graduate students engineers and scientists with a solid foundation of the principles capabilities uses and limitations of guided wave optic devices and systems In addition to the transmission properties of

dielectric waveguides and optical fibers this book covers the principles of directional couplers guided wave gratings arrayed waveguide gratings and fiber optic polarization components The material is fully classroom tested and carefully structured to help readers grasp concepts quickly and apply their knowledge to solving problems Following an overview including important nomenclature and notations the text investigates three major topics Integrated optics Fiber optics Pulse evolution and broadening in optical waveguides Each chapter starts with basic principles and gradually builds to more advanced concepts and applications Compelling reasons for including each topic are given detailed explanations of each concept are provided and steps for each derivation are carefully set forth Readers learn how to solve complex problems using physical concepts and simplified mathematics Illustrations throughout the text aid in understanding key concepts while problems at the end of each chapter test the readers grasp of the material The author has designed the text for upper level undergraduates graduate students in physics and electrical and computer engineering and scientists Each chapter is self contained enabling instructors to choose a subset of topics to match their particular course needs Researchers and practitioners can also use the text as a self study guide to gain a better understanding of photonic and fiber optic devices and systems

Masers and Lasers Mario Bertolotti, 2015-03-13 Masers and Lasers An Historical Approach examines the progress of research and practical use of lasers chronologically covering the fundamental science in detail alongside fascinating biographical sketches of famous physicists and summaries of seminal papers It supplies helpful drawings of prototype devices conceptual diagrams to aid in understanding

Nonlinear Optics and Acoustics of Fluids F. V. Bunkin, 1989

Trends in Quantum Electronics A.M. Prokhorov, I. Ursu, 2013-03-09 The second International Conference on Trends in Quantum Electronics TQE 85 was held in Bucharest at the National Centre for Physics in September 1985 and brought together more than 350 scientists from 22 countries In accordance with the objectives established at the first conference which was held in 1982 in conjunction with the third International Summer School in Coherent Optics the second conference concentrated upon the central topics and chief directions of development in quantum electronics which stands out as an area of science and technology that is currently expanding vigorously On the other hand it was also apparent that TQE 85 was primarily influenced by the worldwide celebration in 1985 of the 25th anniversary of the laser a moment of prime importance in the development of many frontline fields including communications chemistry biology health care and materials processing A special session was devoted to this anniversary In keeping with the dynamic spirit of the conference the fine quality of the invited lectures and the other contributions set a high scientific standard for the proceedings Mention should be made of the posters that were presented throughout the conference These together with the exhibition of books and journals and a display of specialized scientific equipment did much to create a framework for effective communication and stimulating interaction to the benefit of all the participants Of invaluable help in the preparation of the conference was the collaboration of the International Scientific Advisory Committee

Fiber Laser Sources and Amplifiers, 1993 *Physics and*

Simulation of Optoelectronic Devices ,2000

Proceedings of the International Conference on Lasers ,1988

Selected Papers on Coupled-mode Theory in Guided-wave Optics Dennis G. Hall,1993 SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics

Surface Emitting Semiconductor Lasers and Arrays Gary A. Evans,J. M. Hammer,1993 Reviews all the basic types of surface emitting semiconductor lasers including vertical cavity etched mirror integrated beam deflectors and grating out coupled devices The book also addresses such topics as edge emitting arrays thermal management and coherence

International Conference on Holography and Correlation Optics Oleg V. Angelsky,1995 **Study of Thin Film Periodic Waveguides for Distributed-feedback Lasers** Rodolfo Fernando Cordero-Iannarella,1975 **Diffraction theory** Nicholas George,2002 **Scientific and Technical Aerospace Reports** ,1987 Proceedings of the IEEE 1996 National Aerospace and Electronics Conference Institute of Electrical and Electronics Engineers,1995 **International Journal of Infrared and Millimeter Waves** ,1984

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