

# The Principles of Semiconductor Laser Diodes and Amplifiers

*Analysis and Transmission  
Line Laser Modeling*



**H Ghafouri-Shiraz**

Imperial College Press

# Principles Of Semiconductor Laser Diodes And Amplifiers Analysis And Transmibion Line Laser Modelling

**Iowa State University**



## **Principles Of Semiconductor Laser Diodes And Amplifiers Analysis And Transmibion Line Laser Modelling:**

### **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 [Optical Wireless Communications](#)

Z. Ghassemlooy, W. Popoola, S. Rajbhandari, 2019-04-30 The 2nd Edition of Optical Wireless Communications System and Channel Modelling with MATLAB with additional new materials is a self contained volume that provides a concise and comprehensive coverage of the theory and technology of optical wireless communication systems OWC The delivery method makes the book appropriate for students studying at undergraduate and graduate levels as well as researchers and professional engineers working in the field of OWC The book gives a detailed description of OWC focusing mainly on the infrared and visible bands for indoor and outdoor applications A major attraction of the book is the inclusion of Matlab codes and simulations results as well as experimental test beds for free space optics and visible light communication systems This valuable resource will aid the readers in understanding the concept carrying out extensive analysis simulations implementation and evaluation of OWC links This 2nd edition is structured into nine compact chapters that cover the main aspects of OWC systems History current state of the art and challenges Fundamental principles Optical source and detector and noise sources Modulation equalization diversity techniques Channel models and system performance analysis Visible light communications Terrestrial free space optics communications Relay based free space optics communications Matlab codes A number of Matlab based simulation codes are included in this 2nd edition to assist the readers in mastering the subject and most importantly to encourage them to write their own simulation codes and enhance their knowledge [Laser Spectroscopy for Sensing](#)

Matthieu Baudalet, 2014-02-15 Laser spectroscopy is a valuable tool for sensing and chemical analysis Developments in lasers detectors and mathematical analytical tools have led to improvements in the sensitivity and selectivity of spectroscopic techniques and extended their fields of application Laser Spectroscopy for Sensing examines these advances and how laser spectroscopy can be used in a diverse range of industrial medical and environmental applications Part one reviews basic concepts of atomic and molecular processes and presents the fundamentals of laser technology for controlling the spectral and temporal aspects of laser excitation In addition it explains the selectivity

sensitivity and stability of the measurements the construction of databases and the automation of data analysis by machine learning Part two explores laser spectroscopy techniques including cavity based absorption spectroscopy and the use of photo acoustic spectroscopy to acquire absorption spectra of gases and condensed media These chapters discuss imaging methods using laser induced fluorescence and phosphorescence spectroscopies before focusing on light detection and ranging photothermal spectroscopy and terahertz spectroscopy Part three covers a variety of applications of these techniques particularly the detection of chemical biological and explosive threats as well as their use in medicine and forensic science Finally the book examines spectroscopic analysis of industrial materials and their applications in nuclear research and industry The text provides readers with a broad overview of the techniques and applications of laser spectroscopy for sensing It is of great interest to laser scientists and engineers as well as professionals using lasers for medical applications environmental applications military applications and material processing Presents the fundamentals of laser technology for controlling the spectral and temporal aspects of laser excitation Explores laser spectroscopy techniques including cavity based absorption spectroscopy and the use of photo acoustic spectroscopy to acquire absorption spectra of gases and condensed media Considers spectroscopic analysis of industrial materials and their applications in nuclear research and industry

**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

**Optical Switching** Dalia Nandi, Sandip Nandi, Angsuman Sarkar, Chandan Kumar Sarkar, 2022-08-02 OPTICAL SWITCHING Comprehensive coverage of optical switching technologies and their applications in optical networks Optical Switching Device Technology and

Applications in Networks delivers an accessible exploration of the evolution of optical networks with clear explanations of the current state of the art in the field and modern challenges in the development of Internet of Things devices. A variety of optical switches including MEMS based magneto photonic and SOA based are discussed as is the application of optical switches in networks. The book is written in a tutorial style easily understood by both undergraduate and graduate students. It describes the fundamentals and recent developments in optical switch networks and examines the architectural and design challenges faced by those who design and construct emerging optical switch networks as well as how to overcome those challenges. The book offers ways to assess and analyze systems and applications comparing a variety of approaches available to the reader. It also provides a thorough introduction to switch characterization including optical electro optical thermo optical magneto optical and acoustic optical switches. Comprehensive explorations of MEMS based SOA based liquid crystal photonic crystal and optical electrical optical OEO switches. Practical discussions of quantum optical switches as well as nonlinear optical switches. In depth examinations of the application of optical switches in networks including switch fabric control and optical switching for high performance computing. Perfect for researchers and professionals in the fields of telecommunications Internet of Things and optoelectronics. Optical Switching Device Technology and Applications in Networks will also earn a place in the libraries of advanced undergraduate and graduate students studying optical networks optical communications and sensor applications. *The British National Bibliography* Arthur James Wells, 2004

Fundamentals of Laser Diode Amplifiers H. Ghafouri-Shiraz, 1996-05-03 Focusing on the principle applications of SLAs the author illustrates the growing importance of these functional components in the future of optical communications systems. 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

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