



Semiconductor Optical Modulators

A Loxley



Semiconductor Optical Modulators:

Semiconductor Optical Modulators Koichi Wakita, 2013-11-27 The introduction of GaAs AlGaAs double heterostructure lasers has opened the door to a new age in the application of compound semiconductor materials to microwave and optical technologies A variety and combination of semiconductor materials have been investigated and applied to present commercial uses with these devices operating at wide frequencies and wavelengths Semiconductor modulators are typical examples of this technical evolutions and have been developed for commercial use Although these have a long history to date we are not aware of any book that details this evolution Consequently we have written a book to provide a comprehensive account of semiconductor modulators with emphasis on historical details and experimental reports The objective is to provide an up to date understanding of semiconductor modulators Particular attention has been paid to multiple quantum well MQW modulators operating at long wavelengths taking into account the low losses and dispersion in silica fibers occurring at around 1.3 and 1.55 μm At the present time MQW structures have been investigated but these have not been sufficiently developed to provide characteristic features which would be instructive enough for readers One problem is the almost daily publication of papers on semiconductor modulators Not only do these papers provide additional data but they often modify the interpretations of particular concepts Almost all chapters refer to the large number of published papers that can be consulted for future study

Broadband Optical Modulators Antao Chen, Edmond Murphy, 2016-04-19 provides the full exciting story of optical modulators a comprehensive review from the fundamental science to the material and processing technology to the optimized device design to the multitude of applications for which broadband optical modulators bring great value Especially valuable in my view is that the authors are internationally

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Methods and Devices for Optimizing the Operation of a Semiconductor Optical Modulator, 2015 A semiconductor based optical modulator includes a control loop to control and optimize the modulator's operation for relatively high data rates above 1 GHz and or relatively high voltage levels Both the amplitude of the modulator's driving voltage and the bias of the driving voltage may be adjusted using the control loop Such adjustments help to optimize the operation of the modulator by reducing the number of errors present in a modulated data stream

IEICE Transactions on Electronics, 2005 [Optical Semiconductor Devices](#) Mitsuo Fukuda, 1998-12-24 This book is devoted to optical semiconductor devices and their numerous applications in telecommunications optoelectronics and consumer electronics areas where signal processing or the transmission of signals across fiber optic cables is paramount It introduces a new generation of devices that includes optical modulators quantum well QW lasers and photodiodes and explores new

applications of more established devices such as semiconductor lasers light emitting diodes and photodiodes Mitsuo Fukuda examines the material properties operation principles fabrication packaging reliability and applications of each device and offers a unique industrial perspective discussing everything engineers and scientists need to know at different phases of research development and production This guide to the state of the art of optical semiconductor devices Helps you choose the right device for a given application Covers important performance data such as temperature and optical feedback noise in lasers Highlights epitaxial growth techniques and fabrication for each device Features one hundred figures and an extensive bibliography Provides a clear and concise treatment unencumbered by excessive theory Optical Semiconductor Devices is an essential resource for engineers and researchers in telecommunications and optoelectronics equipment designers and manufacturers and graduate students and scholars interested in this rapidly evolving field **Coherent**

Optical Communications Systems Silvello Betti,Giancarlo De Marchis,Eugenio Iannone,1995-02-06 This valuable professional resource offers a timely in depth look at the many new and innovative technologies and systems configurations available to telecommunications engineers who design optical communications networks In addition to providing a broad ranging review of state of the art technologies and systems it arms designers with comprehensive analytical tools with which to comparatively assess available components and systems configurations for performance reliability and practicality

Electronic devices & circuits in S.I. system of units B. L. Theraja,2005 Crossing Channel Waveguide Electro-optic Modulators Gary Evan Betts,1985 Infrared Applications of Semiconductors: Volume 450 M. Omar Manasreh,Thomas H. Myers,François H. Julien,1997-03-17 This book is unique in that it combines for the first time the infrared detectors and infrared lasers and emitters in one volume It is merely a step however in a very fast changing field toward achieving an understanding of novel structures that can be used for high performance infrared detectors imaging arrays infrared lasers and sources Internationally known experts discuss recent advances in materials structures processing and device performances with presentations crossing materials and discipline boundaries Recent investigations based on III V II VI and IV bulk semiconductors quantum wells and superlattices for long wavelength infrared detectors emitters sources and materials are featured Topics include antimonide related materials and devices quantum wells and devices quantum infrared detectors HgCdTe materials devices and processing nonlinear and parametric oscillator material interdiffusion in heterostructures and related topics

1988 IEEE MTT International Microwave Symposium Digest,1988 **Development of High-speed Optoelectronic Modulators** John Jiang Yan,2007 *2000 IEEE International Symposium on Compound Semiconductors* IEEE Electron Devices Society,2000 This text constitutes the proceedings from the 25th IEEE International Symposium on Compound Semiconductors which took place in 2000 Topics covered include emitter science and technology heterostructure devices and quantum effect materials and devices *Japanese Journal of Applied Physics*,1996

Chemical Abstracts,2002 *Optoelectronic Integrated Circuits*,2000 **Optical Networking** Mehmet Toy,2001

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