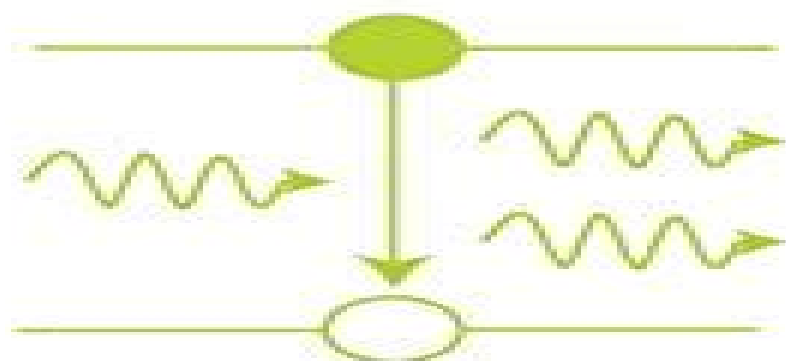


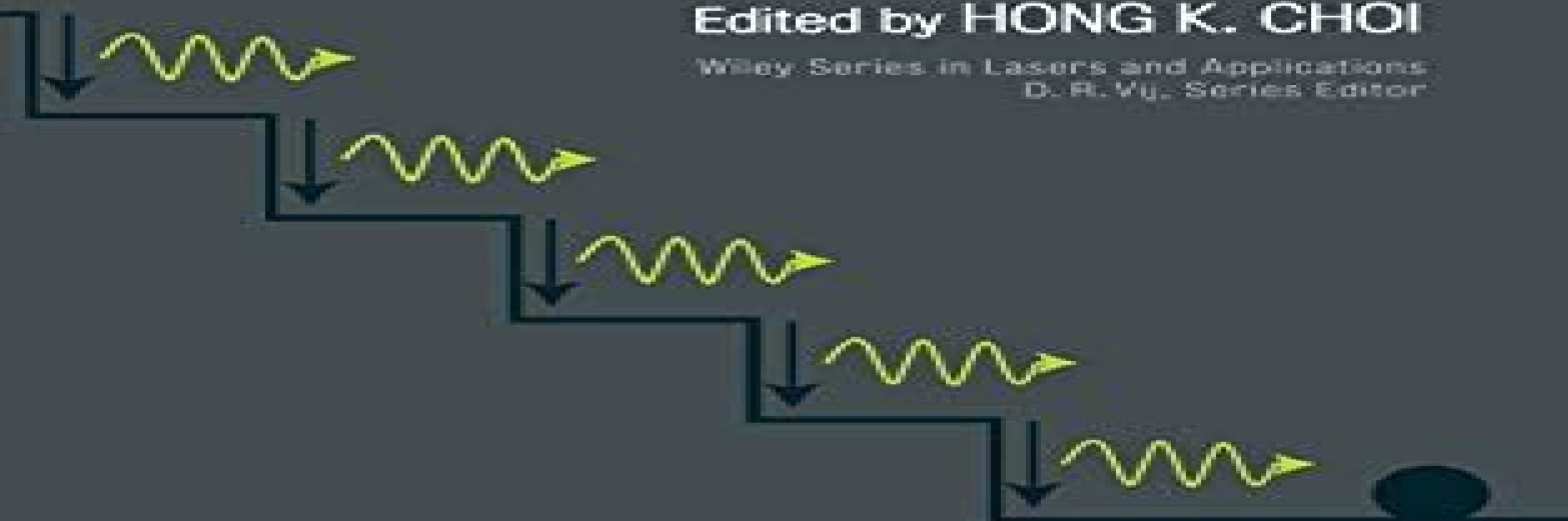


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LONG-WAVELENGTH INFRARED SEMICONDUCTOR LASERS

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Long Wavelength Infrared Semiconductor Lasers

Marius Grundmann



Long Wavelength Infrared Semiconductor Lasers:

Long-Wavelength Semiconductor Lasers Govind Agrawal, Niloy K. Dutta, 1986-12-31 Since its invention in 1962 the semiconductor laser has come a long way. Advances in material purity and epitaxial growth techniques have led to a variety of semiconductor lasers covering a wide wavelength range of 0.3 to 100 μm . The development during the 1970s of GaAs semiconductor lasers emitting in the near infrared region of 0.8 to 0.9 μm resulted in their use for the first generation of optical fiber communication systems. However, to take advantage of low losses in silica fibers occurring around 1.3 and 1.55 μm , the emphasis soon shifted toward long wavelength semiconductor lasers. The material system of choice in this wavelength range has been the quaternary alloy InGaAsP. During the last five years or so the intense development effort devoted to InGaAsP lasers has resulted in a technology mature enough that lightwave transmission systems using InGaAsP lasers are currently being deployed throughout the world. This book is intended to provide a comprehensive account of long wave length semiconductor lasers. Particular attention is paid to InGaAsP lasers although we also consider semiconductor lasers operating at longer wave lengths. The objective is to provide an up to date understanding of semiconductor lasers while incorporating recent research results that are not yet available in the book form. Although InGaAsP lasers are often used as an example the basic concepts discussed in this text apply to all semiconductor lasers irrespective of their wavelengths.

Long-Wavelength Infrared Semiconductor Lasers Hong K. Choi, 2004-03-18 Long wavelength Infrared Semiconductor Lasers provides a comprehensive review of the current status of semiconductor coherent sources emitting in the mid to far infrared spectrum and their applications. It includes three topics not covered in any previous book: far infrared emission from photo mixers as well as from hot hole lasers and InP based lasers emitting beyond two micrometers. Semiconductor lasers emitting at more than two micrometers have many applications such as in trace gas analysis, environmental monitoring and industrial process control. Because of very rapid progress in recent years until this book no comprehensive information beyond scattered journal articles is available at present.

Long-Wavelength Infrared Semiconductor Lasers Hong K Choi, 2004

Long Wavelength Infrared Emitters Based on Quantum Wells and Superlattices Manfred Helm, 2000-10-31 This book offers a thorough survey of long wavelength infrared semiconductor emitters based primarily on quantum wells and superlattices. Featuring contributions from the most prominent researchers in the field, this volume allows readers to compare different types of lasers as well as examine investigations of potential far infrared terahertz sources. This is an essential reference for researchers, engineers and graduate students who wish to obtain comprehensive knowledge about infrared semiconductor sources and recent developments in this field.

Advances in Semiconductor Lasers James J Coleman, A. Catrina Bryce, Chennupati Jagadish, 2012-05-02 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors, editors and contributors. The Willardson and Beer Series as it is widely known has succeeded in

publishing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series **Mid-infrared Semiconductor Optoelectronics** Anthony Krier,2007-05-22 Optoelectronic devices operating in the mid infrared wavelength range offer applications in a variety of areas from environmental gas monitoring around oil rigs to the detection of narcotics They could also be used for free space optical communications thermal imaging applications and the development of homeland security measures Mid infrared Semiconductor Optoelectronics is an overview of the current status and technological development in this rapidly emerging area the basic physics some of the problems facing the design engineer and a comparison of possible solutions are laid out the different lasers used as sources for mid infrared technology are considered recent work in detectors is reviewed the last part of the book is concerned with applications With a world wide authorship of experts working in many mid infrared related fields this book will be an invaluable reference for researchers and graduate students drawn from physics electronic and electrical engineering and materials science Industrial Applications of Lasers John F. Ready,1997-04-25 A practical book with a variety of uses this book can help applications engineers spark problem solving techniques through the use of lasers Industrial Application of Lasers Second Edition takes the reader through laser fundamentals unusual properties of laser light types of practical lasers available and commonly used accessory equipment The book also applies this information to existing and developing applications Current uses of lasers including laser welding and cutting electronic fabrication techniques lightwave communications laser based applications in alignment surveying and metrology are all covered as well as discussing the potential for future applications such as all optical computers remote environmental monitoring and laser assisted thermonuclear fusion Explains basic laser fundamentals as well as emphasizing how lasers are used for real applications in industry Describes the importance of laser safety Discusses potentially important future applications such as remote environmental monitoring Includes rare expert lore and opinion *The Physics of Semiconductors* Marius Grundmann,2015-12-24 The 3rd edition of this successful textbook contains ample material for a comprehensive upper level undergraduate or beginning graduate course guiding readers to the point where they can choose a special topic and begin supervised research The textbook provides a balance between essential aspects of solid state and semiconductor physics on the one hand and the principles of various semiconductor devices and their applications in electronic and photonic devices on the other It highlights many practical aspects of semiconductors such as alloys strain heterostructures nanostructures that are necessary in modern semiconductor research but typically omitted in textbooks Coverage also includes additional advanced topics such as Bragg mirrors resonators polarized and magnetic semiconductors nanowires quantum dots multi junction solar cells thin film transistors carbon based nanostructures and transparent conductive oxides The text derives explicit formulas for many results to support better understanding of the topics The

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Laser-based Mid-infrared Sources and Applications Konstantin L. Vodopyanov, 2020-06-25 An important guide to the major techniques for generating coherent light in the mid infrared region of the spectrum Laser based Mid infrared Sources and Applications gives a comprehensive overview of the existing methods for generating coherent light in the important yet difficult to reach mid infrared region of the spectrum 2 20 μm and their applications The book describes major approaches for mid infrared light generation including ion doped solid state lasers fiber lasers semiconductor lasers and laser sources based on nonlinear optical frequency conversion and reviews a range of applications spectral recognition of molecules and trace gas sensing biomedical and military applications high field physics and attoscience and others Every chapter starts with the fundamentals for a given technique that enables self directed study while extensive references help conduct deeper research Laser based Mid infrared Sources and Applications provides up to date information on the state of the art mid infrared sources discusses in detail the advancements made over the last two decades such as microresonators and interband cascade lasers and explores novel approaches that are currently subjects of intense research such as supercontinuum and frequency combs generation This important book Explains the fundamental principles and major techniques for coherent mid infrared light generation Discusses recent advancements and current cutting edge research in the field Highlights important biomedical environmental and military applications Written for researchers academics students and engineers from different disciplines the book helps navigate the rapidly expanding field of mid infrared laser based technologies

Terahertz Techniques Erik Bründermann, Heinz-Wilhelm Hübers, Maurice FitzGerald Kimmitt, 2012-04-18 Research and development in the terahertz portion of the electromagnetic spectrum has expanded very rapidly during the past fifteen years due to major advances in sources detectors and instrumentation Many scientists and engineers are entering the field and this volume offers a comprehensive and integrated treatment of all aspects of terahertz technology The three authors who have been active researchers in this region over a number of years have designed Terahertz Techniques to be both a general introduction to the subject and a definitive reference resource for all those involved in this exciting research area

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