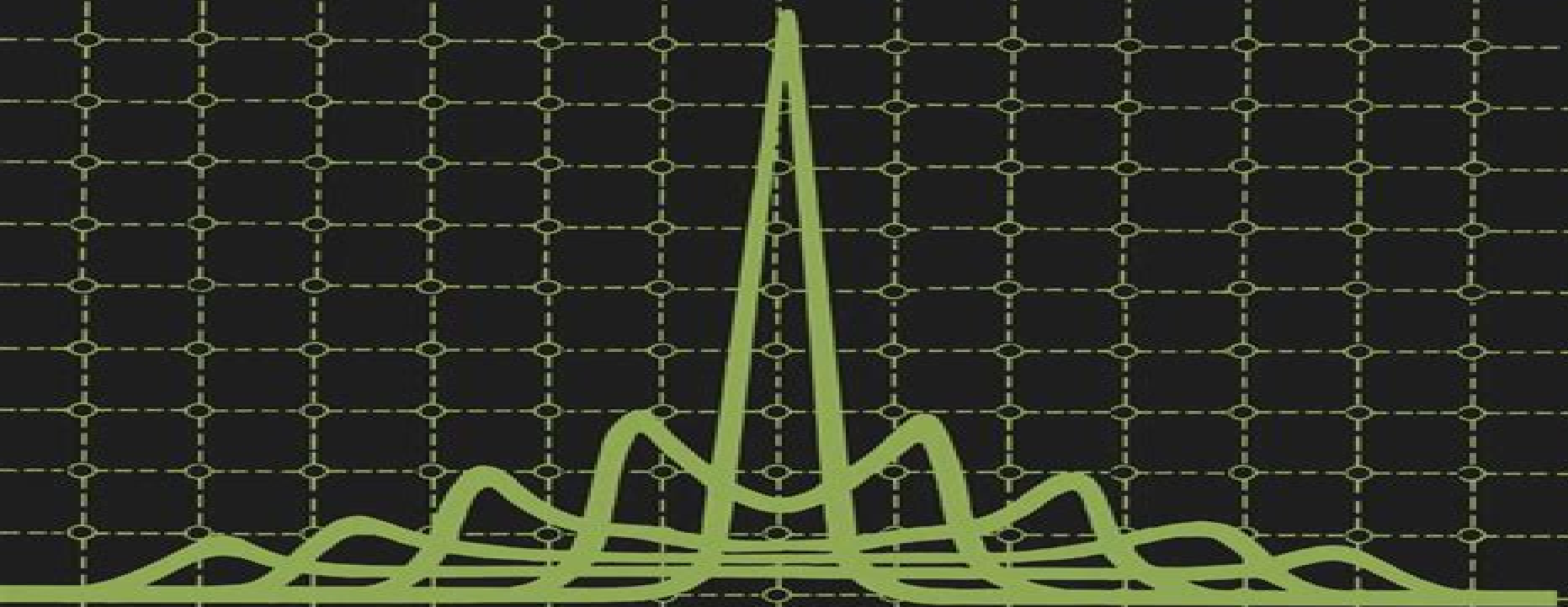


# LONG-WAVELENGTH SEMICONDUCTOR LASERS

G.P. AGRAWAL  
N.K. DUTTA



# Long Wavelength Semiconductor Lasers

**Govind Agrawal**



## **Long Wavelength Semiconductor Lasers:**

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semiconductor lasers emitting in the near infrared region of 0.8–0.9  $\mu\text{m}$  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  $\mu\text{m}$ , 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 wavelength semiconductor lasers. Particular attention is paid to InGaAsP lasers, although we also consider semiconductor lasers operating at longer wavelengths. 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.

**Design and Fabrication of High Speed, Long Wavelength, Semiconductor Lasers** John Gilmary Wasserbauer, 1994.

**Semiconductor Lasers for Long-wavelength Optical-fibre Communications Systems** M. J. Adams, 1987.

**Using Band-filling to Understand Long-wavelength Semiconductor Lasers and Q-switching of Solid-state Lasers** Yi-jen Tsou, 1993.

**InGaAsNSb** Xiaoping Yang, 2002.

**Semiconductor Lasers II** Eli Kapon, 1999-01-14.

Judging from the impact it has on our everyday lives, the semiconductor laser has emerged as perhaps the most important laser device currently in use. This volume presents information on recent advances in materials and structures.

**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.

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