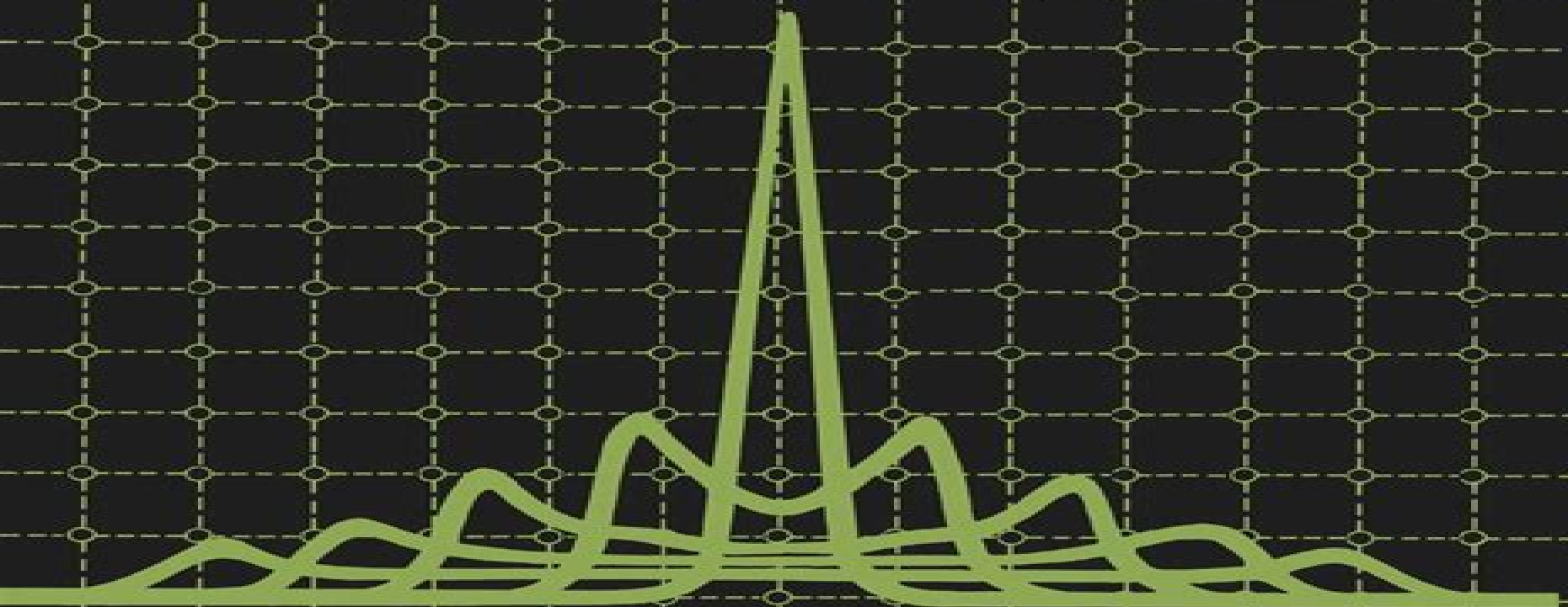


LONG-WAVELENGTH SEMICONDUCTOR LASERS

G.P. AGRAWAL
N.K. DUTTA



Long Wavelength Semiconductor Lasers

John Gilmary Wasserbauer



Long Wavelength Semiconductor Lasers:

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semiconductor lasers emitting in the near infrared region of 0.8–0.9 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 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.

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Feit Zeev and Kostyk Douglas. NASA CR 189243, NAS 1-26-189243, NAS5-30445. *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 **Process Technology for Semiconductor Lasers** Kenichi Iga,Susumu Kinoshita,2013-03-07

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Pei-Chuang Chen,California Institute of Technology. Division of Engineering and Applied Science,1982 *GaAs-based Long-wavelength Semiconductor Diode Lasers for Optical Fibre Communication* Chaoyuan Jin,2008 **Investigation of Long Wavelength GaAs-based Semiconductor Lasers Grown by MOVPE** 田口,2009 **Principles of Lasers** Orazio Svelto,2010-03-16 This fifth edition of Principles of Lasers includes corrections to the previous edition as well as being the

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