

Semiconductor Lasers

- Laser diode is similar in principle to an LED.
- What added geometry does a Laser diode require?
An optical cavity that will facilitate feedback in order to generate stimulated emission.

Fundamental Laser diode: 1. Edge emitting LED. Edge emission is suitable for adaptation to feedback waveguide.

2. Polish the sides of the structure that is radiating.

3. Introduce a reflecting mechanism in order to return radiation to the active region.

4. Drawback: low Q due to excessive absorption of radiation in p and n layers of diode.

Remedy: Add confinement layers on both sides of active region with different refractive indexes. Radiation will reflect back to active region.

Semiconductor Lasers Ppt

Alexei Baranov, Eric Tournié



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Semiconductor Lasers Alexei Baranov, Eric Tournié, 2013-04-23 Semiconductor lasers have important applications in numerous fields including engineering biology chemistry and medicine They form the backbone of the optical telecommunications infrastructure supporting the internet and are used in information storage devices bar code scanners laser printers and many other everyday products Semiconductor lasers Fundamentals and applications is a comprehensive review of this vital technology Part one introduces the fundamentals of semiconductor lasers beginning with key principles before going on to discuss photonic crystal lasers high power semiconductor lasers and laser beams and the use of semiconductor lasers in ultrafast pulse generation Part two then reviews applications of visible and near infrared emitting lasers Nonpolar and semipolar GaN based lasers advanced self assembled InAs quantum dot lasers and vertical cavity surface emitting lasers are all considered in addition to semiconductor disk and hybrid silicon lasers Finally applications of mid and far infrared emitting lasers are the focus of part three Topics covered include GaSb based type I quantum well diode lasers interband cascade and terahertz quantum cascade lasers whispering gallery mode lasers and tunable mid infrared laser absorption spectroscopy With its distinguished editors and international team of expert contributors Semiconductor lasers is a valuable guide for all those involved in the design operation and application of these important lasers including laser and telecommunications engineers scientists working in biology and chemistry medical practitioners and academics working in this field Provides a comprehensive review of semiconductor lasers and their applications in engineering biology chemistry and medicine Discusses photonic crystal lasers high power semiconductor lasers and laser beams and the use of semiconductor lasers in ultrafast pulse generation Reviews applications of visible and near infrared emitting lasers and mid and far infrared emitting lasers

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engineers wishing to consolidate their knowledge in lightwave technology will also find this book an invaluable reference a

Problems in Laser Physics Giulio Cerullo, Stefano Longhi, Mauro Nisoli, S. Stagira, Orazio Svelto, 2012-12-06 There is hardly any book that aims at solving problems typically encountered in the laser field and this book intends to fill the void Following some initial exercises related to general aspects in laser physics Chapt 1 the subsequent problems are organized along the following topics i Interaction of radiation with matter either made of atoms or ions weakly interacting with surrounding species or made of more complicated elements such as molecules or semiconductors Chapters 2 and 3 ii Wave propagation in optical media and optical resonators Chapters 4 and 5 iii Optical and electrical pumping processes and systems Chapter 6 iv Continuous wave and transient laser behaviors Chapters 7 and 8 v Solid state dye semiconductor gas and X ray lasers Chapters 9 and 10 vi Proper ties of the output beam and beam transformation by amplification frequency conversion and pulse compression or expansion Chapters 11 and 12 Problems are proposed here and solved following the contents of Orazio Svelto s *Principles of Lasers* fourth edition Plenum Press New York 1998 Whenever needed equations and figures of the book mentioned above are currently used with an appropriate reference e g Eq 1 Ll of the book is referred to as Eq Ll 1 of PL One can observe however that the types of problems proposed and discussed are of general validity and many of these problems have actually been suggested by our own long time experience in performing theoretical and experimental researches in the field CMOSET Spring 2009 Emerging Technologies Track Presentation Slides CMOS Emerging Technologies Research, Lasers Jean-Claude Diels, Ladan Arissian, 2011-10-17 Lasers are active ingredients of our modern life but they are inconspicuous as they often go unnoticed This intuitive introductory guide will tell you all you want to know about laser technologies in very diverse fields from nuclear and particle physics to medicine astronomy and ultra precise metrology The book is coherently focused on fundamentals and is aimed to stimulate intuition about present and future applications while unveiling the halo of myths around lasers Written by reputable laser experts who think that science should be entertaining this useful reference relies on simple analogies and illustrations rather than complex mathematics and will be suitable for students and end users of laser technologies including novices Voted a CHOICE Outstanding Academic Title 2012

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