

Chapter 4. Semiconductor Lasers: Physics and Applications

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4.1 Introduction

We are developing novel semiconductor lasers to improve the performance of communications systems. Our approach is to build an understanding of these devices that is solidly rooted in electromagnetic modeling, quantum mechanics and condensed matter physics. In the past, we have developed devices that exploit physical phenomena such as (1) Bose-Einstein condensation and coherent population transients; (2) novel fabrication processes such as wafer fusion and x-ray lithography, and (3) novel device designs such as surface-emitting microcavities and quantum cascade lasers to improve devices.

In the last year, several significant advances have been made. These include,

- the development of efficient numerical algorithms for energy band structure calculations
- the development of x-ray diffraction for characterizing the interfaces between optical thin films such as distributed Bragg reflectors
- the prediction and demonstration of low distortion signal transmission achieved by cancellation of spatial-hole burning and gain compression nonlinearities in DFB lasers, and
- the construction of an analog fiber link utilizing ultracompact surface emitting laser sources.

These are among the results discussed in the following sections. Extensive discussion will be presented in several forthcoming journal publications.

4.2 Band Structure and Optical Gain in Strained Layer Quantum Wells

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Project Staff

Farhan Rana, Professor Rajeev J. Ram

Design of high-performance semiconductor lasers requires a careful and detailed consideration of the physical processes involved. In the case of lasers operating at high modulation frequencies and high output power levels, non-equilibrium effects associated with carrier transport, carrier relaxation in quantum wells and carrier heating effects are important. Analytical models currently available to describe laser physics have little accuracy. Design of novel high-performance lasers require efficient and powerful computer simulation tools. Unlike passive devices, active optical devices have a rich variety of physics ranging from the microscopic to the macroscopic level. In order to design semiconductor lasers one needs to know the band structure of strained quantum wells, laser gain, radiative and Auger recombination rates, carrier leakage rates, non-equilibrium carrier dynamics. Careful design of optical waveguiding structures and gratings (in the case of DFB lasers) is also crucial. In addition, microwave propagation characteristics of metal contacts are also of importance especially at high frequencies. We have developed a suite of modeling tools for the accurate simulation of various laser structures:

1. **Band Structure Solver:** We have implemented an efficient finite difference technique to solve band structure of strained quantum wells using an eight-band $k \cdot p$ approach. This scheme also gives us the k -dependent wavefunctions

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