



# Introduction to Semiconductor Optics (Prentice Hall Series in Solid State Physical Electronics)

By Nasser Peyghambarian, Stephan W. Koch, Andre Mysyrowicz

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### **Editorial Review**

#### **From the Publisher**

An introduction to solid state optics.

#### **From the Back Cover**

\* 63899-9, Peyghambarian, Introduction to Key Benefit: This volume provides a basic introduction to the optical properties of solids. Key Topics: Shows from first principles why the absorptive spectrum of the semiconductor looks the way it does, and how the absorption changes with laser irradiation; explains how the index changes can be obtained from absorption changes; considers how these nonlinear indices can be useful in optoelectronic devices; and discusses optical bistable devices, all-optical logic gates, high-speed switches, optical waveguide devices, laser diodes, and optoelectronic switches and modulators. Market: For senior/graduate-level students in electrical engineering and applied physics.

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