



Optical Semiconductor Devices (Wiley Series in Microwave and Optical Engineering)

Mitsuo Fukuda

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This book is devoted to optical semiconductor devices and their numerous applications in telecommunications, optoelectronics, and consumer electronics—areas where signal processing or the transmission of signals across fiber optic cables is paramount. It introduces a new generation of devices that includes optical modulators, quantum well (QW) lasers, and photodiodes and explores new applications of more established devices such as semiconductor lasers, light-emitting diodes, and photodiodes. Mitsuo Fukuda examines the material properties, operation principles, fabrication, packaging, reliability, and applications of each device and offers a unique industrial perspective, discussing everything engineers and scientists need to know at different phases of research, development, and production. This guide to the state-of-the-art of optical semiconductor devices:

- * Helps you choose the right device for a given application.
 - * Covers important performance data such as temperature and optical feedback noise in lasers.
 - * Highlights epitaxial growth techniques and fabrication for each device.
 - * Features one hundred figures and an extensive bibliography.
 - * Provides a clear and concise treatment, unencumbered by excessive theory
- Optical Semiconductor Devices is an essential resource for engineers and researchers in telecommunications and optoelectronics, equipment designers and manufacturers, and graduate students and scholars interested in this rapidly evolving field.

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