



Fundamentals of Optical Waveguides (Optics and Photonics)

Katsunari Okamoto

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Fundamentals of Optical Waveguides gives a complete theoretical basis of optical fibers and planar lightwave circuits. Fundamental analytical waveguide theories are introduced and various numerical methods are presented. Recent topics on planar lightwave circuit (PLC) devices are described including operational principles of arrayed-waveguide grating multiplexers (AWGs) and their applications. Readers will acquire a thorough understanding of optical fibers and waveguides as well as capabilities of designing and simulating novel optical devices.

Key Features

- * Thorough and informative description of waveguide theory
- * First book dealing with principles and applications of AWGs and PLCs
- * Full description of nonlinear optical effects in optical fibers such as optical solitons and four wave mixing etc
- * Detailed theory on light coupling phenomena in directional couplers and Bragg gratings

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