

Optical Waveguide Modes

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A complete guide to optical waveguide modes This in-depth work explains how transverse optical waveguide geometry influences field distribution and polarization properties. You will gain a thorough understanding of the fundamental physics of mode structure. Optical Waveguide Modes covers single- and few-mode optical waveguides with an emphasis on single-core and multicore optical fibers and couplers, including a large range of geometries and anisotropies. Analysis is performed using extensions of the weak-guidance perturbation formalism together with elementary group representation theory. This definitive volume offers a detailed introduction to and classification of diverse forms of fundamental and higher-order modes and various polarization manifestations. Coverage includes: Electromagnetic theory for anisotropic media Weak guidance for longitudinally invariant fibers Circular isotropic longitudinally invariant fibers Azimuthal symmetry breaking Birefringence: linear, radial, and circular Multicore and multifiber couplers EAN/ISBN : 9780071629140 Publisher(s): McGraw-Hill Professional Format: ePub/PDF Author(s): Black, Richard J. - Gagnon, Langis

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