

Power Coupling Equations for Single-Mode, Single-Polarization Optical Fibers with Effects of Leaky Modes and Broad-Band Light Source

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A set of coupled equations for single-mode single-polarization (SMSP) optical fibers applicable to the case with effects of leaky modes and broad-band light source has been derived. The power coupling coefficients are related not only to the birefringence of the SMSP fiber, but also to the leaky mode loss and the spectral line width of the light source.

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