

Analysis of the Symmetrical Modes for an Eccentrically Cladded Fiber

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This paper examines the core and the cladding modes of an eccentrically cladded three-layer dielectric waveguide. The solutions are specialized to small eccentricities, and exact closed-form expressions for the normalized deviations of the cutoff wavenumbers from those of the concentric case are determined. Numerical results for the symmetrical cladding modes of the fiber are given.

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