Abstracts

Modal Analysis of Homogeneous Optical Fibers with Deformed Boundaries

E. Yamashita, K. Atsuki, O. Hashimoto and K. Kamijo. "Modal Analysis of Homogeneous Optical Fibers with Deformed Boundaries." 1979 Transactions on Microwave Theory and Techniques 27.4 (Apr. 1979 [T-MTT]): 352-356.

The modal characteristics of homogeneous optical fibers with several types of deformed boundaries are analyzed by a numerical method on the point-matching principle. The propagation constants of various modes are given. The separation of degeneracy in the dominant is discussed. The results of microwave-model experiments show good agreement with those of calculation.

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