# Abstracts

## High-Accuracy Numerical Data on Propagation Characteristics of alpha-Power Graded-Core Fibers

*K. Oyamada and T. Okoshi. "High-Accuracy Numerical Data on Propagation Characteristics of alpha-Power Graded-Core Fibers." 1980 Transactions on Microwave Theory and Techniques 28.10 (Oct. 1980 [T-MTT]): 1113-1118.*

High-accuracy data of normalized cutoff frequencis, propagation constants, and delay time of LP/sub ml/ modes for alpha-power graded-core fibers (alpha = 1, 2, 4, and 10) are obtained by using two entirely different methods: power-series expansion and finite element methods, and the results are compared. The difference between cutoff frequencies obtained by these methods is less than 0.005 percent for most of the LP modes. The obtained data are accurate enough to be used as the standard for estimating the accuracy of other various analyses.

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