

# Abstracts

## On the Accuracy of Scalar Approximation Technique in Optical Fiber Analysis

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*K. Morishita, Y. Kondoh and N. Kumagai. "On the Accuracy of Scalar Approximation Technique in Optical Fiber Analysis." 1980 Transactions on Microwave Theory and Techniques 28.1 (Jan. 1980 [T-MTT]): 33-36.*

The accuracy of the scalar approximation technique in optical fiber analysis is investigated in detail. The scalar approximate solutions are compared numerically with the vector (rigorous) solutions for various linear refractive-index distributions, and several interesting features which are of practical importance are pointed out.

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