

Abstracts

A Coupled-Mode Approach to the Analysis of Fields in Space-Curved and Twisted Waveguides

X.-S. Fang and Z.-Q. Lin. "A Coupled-Mode Approach to the Analysis of Fields in Space-Curved and Twisted Waveguides." 1987 *Transactions on Microwave Theory and Techniques* 35.11 (Nov. 1987 [T-MTT]): 978-983.

A coupled-mode approach for solving Maxwell's equations in terms of unitary and reciprocal unitary vectors is deduced in a twisted space-curved coordinate system. Application of this method to the analysis of fields in a space-curved and twisted single-mode optical fiber and a twisted rectangular microwave waveguide is presented and compared with the results from existing literature.

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