

# Abstracts

## On the Theory of Corrugated Optical Disk Waveguides

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S.R. Kerner, N.G. Alexopoulos and R.F. Cordero-Iannarella. "On the Theory of Corrugated Optical Disk Waveguides." 1980 *Transactions on Microwave Theory and Techniques* 28.1 (Jan. 1980 [T-MTT]): 18-24.

The corrugated disk dielectric waveguide is investigated by considering a linear combination of orthogonal wavefunctions of the uncorrugated device. It is shown that, just as in the case of corrugated planar slab waveguides, codirectional as well as contradirectional coupling of guided modes is possible. Some potential applications of the device are discussed and device parameters are investigated for specific waveguide materials.

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