

# Abstracts

## A New Approach to Dispersion Analysis of Graded Index Optical Fibers

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*H.J. Carlin and H. Zmuda. "A New Approach to Dispersion Analysis of Graded Index Optical Fibers." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 307-310.*

The dispersion characteristics of graded index optical fiber are studied using a transverse transmission line circuit representation. For round fibers new approximations have been developed which significantly simplifies the analysis. An interesting perspective as to the physical mechanisms underlying the dispersion characteristics of such fibers result from circuit theoretic considerations.

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