Abstracts

Computed Modal Field Distributions for Isolated Dielectric Resonators

D. Kajfez, A.W. Glisson and J. James. "Computed Modal Field Distributions for Isolated Dielectric Resonators." 1984 Transactions on Microwave Theory and Techniques 32.12 (Dec. 1984 [T-MTT] (1984 Symposium Issue)): 1609-1616.

Electric- and magnetic-field patterns for five of the lowest resonant modes in cylindrical dielectic resonators are displayed in various planes of intersection. The computational procedure is based on a method moments solution of the surface integral equation for bodies of revolution. Improvement of the numerical stability through the normalization of the matrix is discussed, and an algorithm for the evaluation of the modal field components is described.

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