

# Abstracts

## Propagation in Ferrite-Filled Coaxial Transmission Lines

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*R.S. Mueller and F.J. Rosenbaum. "Propagation in Ferrite-Filled Coaxial Transmission Lines." 1968 Transactions on Microwave Theory and Techniques 16.10 (Oct. 1968 [T-MTT]): 835-842.*

The dispersion relations ( $\omega$ - $\beta$  diagrams) for propagation of the quasi-TEM mode and higher-order symmetric modes in longitudinally magnetized ferrite-filled coaxial waveguide are presented. The dispersion relations for ferrite-filled coaxial cavity resonators are analyzed and presented graphically. The performance and operation of an X-band tunable ferrite filter is evaluated in light of the  $\omega$ - $\beta$  diagrams

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