

Abstracts

Field Solution and Propagation Characteristics of Monofilar-Bifilar Modes of Axially Slotted Coaxial Cable

E.E. Hassan. "Field Solution and Propagation Characteristics of Monofilar-Bifilar Modes of Axially Slotted Coaxial Cable." 1989 Transactions on Microwave Theory and Techniques 37.3 (Mar. 1989 [T-MTT]): 553-557.

The electromagnetic problem of an infinite, axially slotted coaxial cable is solved. The monofilar and the bifilar eigenmodes are obtained with good accuracy and previous conflicting results are discussed. Further, a field solution satisfying the proper boundary conditions is obtained and shown to be essentially azimuthal.

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