Abstracts

Electromagnetic Theory of the Loosely Braided Coaxial Cable: Part II--Numerical Results

D.A. Hill and J.R. Wait. "Electromagnetic Theory of the Loosely Braided Coaxial Cable: Part II--Numerical Results." 1980 Transactions on Microwave Theory and Techniques 28.4 (Apr. 1980 [T-MTT]): 326-331.

The general modal equation obtained in Part I is solved numerically for the propagation constants of both the monofilar and bifilar modes. For the special case of an air-filled cable, only one mode is supported. Numerical results are also presented for the surface transfer impedance of the shield which, in general, depends on the propagation constant. The properties of the counterwound helical shield are found to be qualitatively similar to those of the unidirectional helical shield.

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