Abstracts

A Logarithmic Transmission Line Chart

A.C. Hudson. "A Logarithmic Transmission Line Chart." 1959 Transactions on Microwave Theory and Techniques 7.2 (Apr. 1959 [T-MTT]): 277-281.

A chart is presented which relates the real and imaginary components of the impedanceat any position along a transmission line to the magnitude and location of the standing wave. In the present chart the ordinate is R/Z/sub 0/ plotted logarithmically and the abscissa is a function of X/R. Thus a change in the reference impedance becomes a simple vertical translation of any point. An auxiliary chart permits the direct determination of the length and impedance of transmission line required to match a given impedance.

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