

Abstracts

Characteristics of Propagating Waves on Yagi-Uda Structure

L.C. Shen. "Characteristics of Propagating Waves on Yagi-Uda Structure." 1971 Transactions on Microwave Theory and Techniques 19.6 (Jun. 1971 [T-MTT]): 536-542.

Analytic solutions of the current distribution, the k-beta diagram, and the cutoff frequencies are obtained for electromagnetic waves propagating on an infinite Yagi-Uda structure. All quantities are expressed in terms of tabulated functions without involving numerical integrations. Theoretical limits of various passbands are also calculated.

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