

Abstracts

Microwave Network Analysis of a Leaky-Wave Structure in Non-Radiative Dielectric Waveguide

A. Sanchez and A.A. Oliner. "Microwave Network Analysis of a Leaky-Wave Structure in Non-Radiative Dielectric Waveguide." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 118-120.

An accurate microwave network analysis is presented for a new leaky-wave structure based on a recent nonradiative (and practical) modification of H guide. The structure can serve as the basis for a new millimeter wave antenna of simple configuration. The analysis employs a transverse equivalent network, with some subtle features, that yields a dispersion relation in closed form; numerical values are presented for the phase and leakage constants, including experimental confirmation.

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