

Abstracts

Time-domain Characteristics Of Slotted-waveguide Leaky-wave Antennas

*D. Kralj and L. Carin. "Time-domain Characteristics Of Slotted-waveguide Leaky-wave Antennas." 1997 *Microwave and Guided Wave Letters* 7.5 (May 1997 [MGWL]): 124-126.*

A general asymptotic theory is presented to describe the time-domain behavior of leaky transmission lines and antennas. The results are interpreted via a simple geometric construct and data are presented for the particular case of time-domain radiation from a slotted-waveguide antenna. The example data are obtained both experimentally and numerically, with the expected phenomenology demonstrated via time-frequency processing.

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