Abstracts

Short-Pulse Radiation with Low Cross-Polarization and a Related New Pulse Ringing Phenomenon in a Printed Antenna Element Covered by a Polarization Strip Grating

A. Mohanty and N.K. Das. "Short-Pulse Radiation with Low Cross-Polarization and a Related New Pulse Ringing Phenomenon in a Printed Antenna Element Covered by a Polarization Strip Grating." 1994 Microwave and Guided Wave Letters 4.6 (Jun. 1994 [MGWL]): 157-159.

Suppression of unwanted cross-polar radiation from a printed antenna element by placing a printed strip-grating on top is demonstrated for short-pulse radiation. It is discovered that an interesting pulse ringing cart occur due to a new "grating resonance." A full-wave analysis is outlined that models the effect of the strip grating placed on top of a microstrip antenna element and predicts the new pulse-ringing effect.

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