Abstracts

Spurious radiation from a practical source on a leaky covered microstrip line

W.L. Langston, J.T. Williams, D.R. Jackson and F. Mesa. "Spurious radiation from a practical source on a leaky covered microstrip line." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 875-878 vol.2.

The radiated fields from the currents induced on a covered microstrip transmission line by a finite-gap voltage source are presented. The behavior of the bound-mode and continuous-spectrum fields is studied. It is determined that leaky-mode fields can contribute to cross-talk and other interference effects near the source and within an angular leakage region, while bound-mode radiation fields are the predominant mechanism for these effects further away from the gap source outside the leakage region.

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