

# Abstracts

## Significant contribution of improper-real solution to the fields excited by a practical source in printed-circuit transmission lines

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*M. Tsuji, N. Yahata and H. Shigesawa. "Significant contribution of improper-real solution to the fields excited by a practical source in printed-circuit transmission lines." 1999 MTT-S International Microwave Symposium Digest 99.1 (1999 Vol. 1 [MWSYM]): 57-60 vol.1.*

We first reported for conductor-backed coplanar strips that nonphysical improper solution has significant contribution to physical total field excited by a practical source. We investigate here quantitatively this unexpected effect for slot lines in more detail, and we conclude that it occurs on most, if not all, printed-circuit lines, so that the effect is rather general.

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