

# Abstracts

## Unexpected contribution of nonphysical mode to the fields excited by a practical source in printed-circuit transmission lines

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*M. Tsuji, H. Takayama and H. Shigesawa. "Unexpected contribution of nonphysical mode to the fields excited by a practical source in printed-circuit transmission lines." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 647-650.*

Contrary to ordinary belief, we report here for the first time that, on printed-circuit lines, some nonphysical solution (improper real solution in this paper) has a significant contribution to physical total fields excited by a practical source. Both the FDTD and GPOF methods numerically show the proofs.

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