Abstracts

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

M. Tsuji, S. Ueki and H. Shigesawa. "Significant contribution of nonphysical leaky mode to the fields excited by a practical source in printed-circuit transmission lines." 2002 MTT-S International Microwave Symposium Digest 02.2 (2002 Vol. II [MWSYM]): 957-960 vol.2.

We were the first to report for printed-circuit transmission lines that nonphysical improper real solutions have significant effect on physical total field excited by a practical source. We have recently studied such interesting and unexpected effects in more detail, and we have discovered here that nonphysical leaky solution also causes a significant effect on physical near field excited by a practical source, contrary to earlier belief.

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