

General oscillator characterization using linear open-loop S-parameters (Comments)

L. Cascio. "General oscillator characterization using linear open-loop S-parameters (Comments)." 2002 *Transactions on Microwave Theory and Techniques* 50.1 (Jan. 2002, Part I [T-MTT] (Mini-Special Issue on 1999 International Microwave and Optoelectronics Conference (IMOC'99))): 226-227.

For original paper see *ibid.*, vol. 49, no. 6, p. 1094-1100 (2001). A general expression for the gain in terms of S-parameters, based on the physical concept of the input and output impedances of the self-terminated circuit, has been provided. This expression is mathematically equivalent to the one provided in terms of T-parameters in the aforementioned paper by Randall and Hock, and in the opinion of the commenter invalidates the S-parameter formulation provided by them in the paper. In reply, the authors state that Cascio's comments and S-parameter derivation touch on an important fundamental concept underlying the derivation described in their paper. They claim that their paper did not go into depth explaining some of the subtleties related to this, but they welcome the opportunity to do so now in this reply.

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