

Abstracts

Stability envelope-new tool for generalised stability analysis

T. Narhi and M. Valtonen. "Stability envelope-new tool for generalised stability analysis." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 623-626.

A new Nyquist-type method for stability analysis is presented. The envelope of the mapping from source and load impedance planes with "normalised determinant function" is determined for all passive terminations. The circuit is unconditionally stable if the origin is not encircled or included within the envelope. A single plot reveals instabilities, caused either by internal poles of the circuit or by arbitrary terminating impedances.

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