

Abstracts

A Reflection Coefficient Approach to the Design of One-Port Negative Impedance Oscillators

D.J. Esdale and M.J. Howes. "A Reflection Coefficient Approach to the Design of One-Port Negative Impedance Oscillators." 1981 Transactions on Microwave Theory and Techniques 29.8 (Aug. 1981 [T-MTT]): 770-776.

A technique for analyzing microwave oscillators is presented which utilizes readily available device and circuit reflection coefficient information to predict oscillation conditions, stability, and noise performance. The flowgraph approach used yields simple equations which maybe readily applied in practice. A graphical interpretation is presented which emphasizes the ease of application of the method proposed.

[Return to main document.](#)