

Abstracts

Stability of the Oscillation Mode in a Multiple-Oscillator System

S. Hamaya. "Stability of the Oscillation Mode in a Multiple-Oscillator System." 1985 *Transactions on Microwave Theory and Techniques* 33.7 (Jul. 1985 [T-MTT]): 593-599.

By using the Rieke diagram in terms of traveling waves, we discuss the stability conditions for an oscillation mode in a multiple-oscillator system which clearly indicate the reason why it is difficult for a multiple-oscillator system to obtain a single-mode operation. Further, we proposed a combining power system of oscillators which can give a stable operation free from the moding problem. Experimental observations are found to be in good agreement with the conclusions of the analytical approach.

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