

Abstracts

On the design of a series-feedback network in a transistor negative-resistance oscillator

G. Gonzalez and O.J. Sosa. "On the design of a series-feedback network in a transistor negative-resistance oscillator." 1999 *Transactions on Microwave Theory and Techniques* 47.1 (Jan. 1999 [T-MTT]): 42-47.

This paper presents a review and exposition to the design of the series-feedback network commonly used in a negative-resistance transistor oscillator. An appropriate selection of the feedback network can significantly increase the negative resistance of the two-port network and is, therefore, an important design step. Three methods, the third being a CAD method, are given for the design of the series-feedback network with examples that help illustrate the procedures used in each method. Furthermore, the examples show the agreement amongst the three methods.

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