



Simulation of the Dynamic Transistor Negatrons

http://www.firstlight.cn 2000-02-28

The simulation principles of monolithic microwave dynamic transistor negatrons (circuits with negative differential active resistance) a re introduced. The non-linear model has been developed on the basis of non-linear charge model. The equivalent circuit and Volterra series w ere used for the calculation of dynamic negatrons' parameters. The expressions were obtained, which give the linear relation between curren t and voltage charges and allow calculating the transferring characteristics. Experimental oscillators are described, which confirm the theoretical predictions.

<u>存档文本</u>

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