

Abstracts

Contiguous-Domain Transferred-Electron Oscillators

J.A. Cooper, Jr. and K.K. Thornber. "Contiguous-Domain Transferred-Electron Oscillators." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 423-426.

We describe a new monolithic millimeter-wave semiconductor oscillator which is capable of supporting a contiguous sequence of charge domains in the drift channel. The frequency is not determined by a transit time effect, but rather by the spacing between adjacent domains, and can be electrically tuned from a few gigahertz to a few hundred gigahertz.

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