

Abstracts

Microwave Bandwidth Active Transversal Filter Concept With MESFETs

W. Jutzi. "Microwave Bandwidth Active Transversal Filter Concept With MESFETs." 1971 Transactions on Microwave Theory and Techniques 19.9 (Sep. 1971 [T-MTT]): 760-767.

An active transversal filter concept for microwave frequencies is proposed. Silicon metal semiconductor field-effect transistors (MESFETs) with high impedances are used as active coupling elements. A hardware implementation yields a minimum interval between equalized pulses of 1.5 ns. Simulations with improved MESFETs predict equalization for smaller pulse intervals than 400 ps.

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