

Abstracts

Multiplexing and Demultiplexing Techniques with Gunn Devices in the Gigabit-Per-Second Range

K. Mause. "Multiplexing and Demultiplexing Techniques with Gunn Devices in the Gigabit-Per-Second Range." 1976 Transactions on Microwave Theory and Techniques 24.12 (Dec. 1976 [T-MTT] (1976 Symposium Issue)): 926-929.

In this paper a circuit is described which can process signals in the gigabit-per-second range for fast PCM applications. Such circuits will be interesting for future communication links, especially in connection with glass fibers. A monolithically integrated shift register with Gunn devices on GaAs is used. A circuit consisting of five stages is described and experimental results for bit rates near 2 Gbit/s are reported.

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