

Abstracts

A fast frequency-switching synthesizer with an integration circuit

H. Nosaka, T. Nakagawa and A. Yamagishi. "A fast frequency-switching synthesizer with an integration circuit." 1998 Transactions on Microwave Theory and Techniques 46.12 (Dec. 1998, Part II [T-MTT] (1998 Symposium Issue)): 2233-2239.

A new type of direct frequency synthesizer, which can complete frequency switching in less than a microsecond, is proposed. This yields low-spurious outputs by using a low-power analog integration circuit, whose operating principle is similar to a digital accumulator. Experimental results demonstrate successful frequency synthesizer operation.

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