Abstracts

Filtering, Frequency Multiplexing, and Other Microwave Applications with Inverted-Common-Collector Transistor Circuits

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To be useful in the design of microwave integrated circuits, conventional components often need to be severely modified or to be employed in other than the usual configurations. The inverted-common-collector (ICC) transistor is an example of a useful active microwave circuit element, suitable for integrated-circuit applications, but virtually unused at lower frequencies. Initial results on active filters using ICC transistors were reported at the 1968 G-MTT symposium. More recently, the ICC configuration has been successfully used to realize stable multiplexers, impedance-matching elements, oscillators, and amplifiers at UHF and microwave frequencies. The purpose of this paper is to present several new applications for ICC transistor circuits.

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