

Abstracts

Digital Generation of Wideband Linear FM Waveforms

F.W. Hopwood and R.A. Tracy. "Digital Generation of Wideband Linear FM Waveforms." 1980 MTT-S International Microwave Symposium Digest 80.1 (1980 [MWSYM]): 111-113.

A technique for the direct digital generation of linear FM waveforms with up to 900 MHz bandwidth and T-B products to 450,000 is presented. The technique is applicable to high resolution Synthetic Aperture Radars, and to target identification and target count modes in multimode airborne radars. Origins of representative system requirements are outlined, mechanization details are described, and testing methods and results showing waveforms of excellent coherence and fidelity are presented.

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