Abstracts

A 32 Tap Digitally Controlled Programmable Transversal Filter Using LSI GaAs ICs

J.W. Culver, D.E. Zimmerman and C.M. Panasik. "A 32 Tap Digitally Controlled Programmable Transversal Filter Using LSI GaAs ICs." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 561-564.

A Digitally Controlled Programmable Transversal Filter (DCPTF) is described that employs a LiNbO/sub 3/ SAW delay line and two LSI GaAs ICs to digitally control magnitude and sign of the 32 tap weights. The DCPTF constitutes a significant reduction in size over the previously reported PTF with little sacrifice in performance. The DCPTF is completely programmable and is constrained only by the bandwidth (100 MHz centered at 300 MHz) and the number of taps.

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