Abstracts

A Heterostructure Acoustic Charge Transport Delay Line for Sonet Radio Adaptive Multipath Equalization

J.S. Kenney, R.D. Briggs, A.W. Smith, E.K. Yurtkuran, J.H. Irby, W.D. Hunt, T.P. Cameron and J.C.B. Saw. "A Heterostructure Acoustic Charge Transport Delay Line for Sonet Radio Adaptive Multipath Equalization." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 1213-1216.

This paper presents the design for a HACT-based tapped delay line for adaptive equalization of frequency selective multipath faded channels for a wireless terrestrial digital microwave commuication system. This approach allows monolithic integration of the electronics and improvements in insertion loss and noise figure over the SAW approach currently used in this system.

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