

Abstracts

Investigations and Improvements in Microwave Opto-Electronic Variable Delay Lines

I. Frigyes, O. Schwelb and J. Berces. "Investigations and Improvements in Microwave Opto-Electronic Variable Delay Lines." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 887-890.

A particular class of optically generated microwave delay lines is dealt with namely those that apply path length dispersions. Detailed analysis of the design, using an acousto-optic device for spatial imaging is given. Furthermore two new designs. decomposing the signal into sub-bands; a.) via a pixelled mirror and b.) using an electrical filter bank, are discussed. Detailed analysis of these structures as well as limitations of applicability are given. Numerical experiments validate the theoretical results.

[Return to main document.](#)