

Abstracts

Acoustooptically Controlled True Time Delays

W.D. Jemison and P.R. Herczfeld. "Acoustooptically Controlled True Time Delays." 1993

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A novel microwave true time delay system is proposed that uses an acoustooptic cell to address the desired time delay. The system is compatible with high speed optical intensity modulation techniques and will therefore support microwave modulation frequencies into the millimeter wave range. The number of possible delays is a function of the acoustooptic cell properties and the desired isolation between delay paths. A 7-bit true time delay system appears feasible based on an assessment of commercially available acoustooptic cell technology.

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