

# OPTIMAL COMPROMISE (SUM-DIFFERENCE) SYNTHESIS USING A B-TREE SEARCH ALGORITHM - LINEAR INTERLEAVED ARRAYS

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## Abstract

Negli array lineari di grandi dimensioni utilizzati nel radar tracking le eccitazioni necessarie alla generazione di patterns di tipo soma e differenza sono tipicamente di tipo (ON/OFF). Array di questo tipo sono detti thinned.

La necessità di ridurre la complessità hw, l'ingombro del sistema 'Antenna' (elemento radiante ed alimentazione) e d'altra parte aumentarne l'efficienza ha portato all'introduzione di una nuova tecnica detta 'interleaved' in cui pattern differenti sono generati da elementi che si trovano sullo stesso array lineare.

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