

Abstracts

Requirements for Optically Processing Information from a Phased Array

J.E. Rhodes, Jr.. "Requirements for Optically Processing Information from a Phased Array." 1974 S-MTT International Microwave Symposium Digest of Technical Papers 74.1 (1974 [MWSYM]): 46-49.

A receiving array antenna has RF information in the response of its elements that may simultaneously cover many targets in the "radio scene" in front of it. To realize this potential requires an enormous amount of data processing. This data processing could be accomplished efficiently with an "optical data processor," provided a reasonable optical replica of the RF field in the antenna aperture could be realized.

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