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Principles of Aperture and Array System Design: Including ...  
Principles of aperture and array system design: Including random and adaptive arrays. Steinberg, B. D. Abstract. The book is concerned with two major disciplines in array design: the geometric properties of arrays, which are handled by physical optics, Fourier and Fresnel transforms, and convolution theory, and the relation of array properties to properties of systems within which the array serves as the transducer.

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The principles of array antenna design using pattern multiplication of element and array patterns can be used to design and analyse arrays of apertures. Here we assume the apertures are all the same

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shape and size, and are orientated in the same direction in the x-y plane.

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## Aperture antenna principles - Eryptick

In the case considered, the number of array elements and the spatial aperture of an unequally spaced array are a priori fixed. Thanks to the high flexibility of simulated annealing, the results obtained for a 25-element array over an aperture of 50l improve those reported in the literature.

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## Principles of Aperture and Array System Design (1976)

For a given aperture (A), the focus length (L) DECREASES as the

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focal distance (zfoco) DECREASES. The maximum focal distance (zfoco(MAX)) must be inside the near-field No. A => Active aperture. V => Velocity of propagation. Dynamic. Depth Focusing (DDF) The DDF dynamically changes the focal distance as the signal returns to the phased array probe.

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## Phased array

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ics. It is useful to recall some principles of receive-only surface coil

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design given the many features in common with the single elements of the array. 2.1 Transmit detuning Each element of a coil array is a surface coil designed to receive the signal from the nuclear spins.

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## Principles of Array System Design

(vii) B. D. Steinberg, Principles of Aperture and Array System

Design [Ste 7 (viii) R. J. Mailloux, Phased Array Antenna

Handbook [Mai94] (ix) W. L. Weeks, Antenna Engineering

[Wee681 (x) K. Fujimoto and J. R. James, Mobile Antenna Systems

Handbook [FJ94 :l

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## Appendix B: Array Processing Literature

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Principles of Aperture and Array System Design: Including ... Chapter 11, which covers aperture and array antennas, discusses in detail the important concepts underlying phase array antennas, including linear, planar, circular, and conformal arrays. Two tables list all equations to calculate null, main lobe maxima, half-power points, and minor lobe maxima for endfire and broadside array, and many good examples of design array antennas are provided.

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