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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

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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 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

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improve those reported  
in the literature.

## Array System Design

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and Array System  
Design (1976)

For a given aperture  
(A), the focus length (L)  
DECREASES as the  
focal distance (zfoco)  
DECREASES. The  
maximum focal distance  
(zfoco(MAX)) must be

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## Principles Of

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

To get started finding

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

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a surface coil designed  
to receive the signal  
from the nu-clear spins.

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Mailloux, Phased Array  
Antenna Handbook

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R. James, Mobile  
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Chapter 11, which  
covers aperture and  
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## Principles Of

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

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