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61. a. Ex = E1 + E2 + E3 = 2E = ikr + E = ikr

where the center element is placed at the origin. For fur-field observations

 $n \simeq r - d \cos \theta$ } for phase variations

r ~ r ~ r for amplitude variations

and $E_{\pm} = E_0 \frac{e^{ikr}}{r} \left\{ 2 + e^{ikd\cos\theta} + e^{-ikd\cos\theta} \right\}$ $= E_0 \frac{e^{ikr}}{r} \left\{ 2 \left[1 + \frac{1}{2} \left(e^{ikd\cos\theta} + e^{ikd\cos\theta} \right) \right] \right\}$ $= E_0 \frac{e^{ikr}}{r} \left\{ 2 \left[1 + \cos \left(kd\cos\theta \right) \right] \right\}$

Computer Program

Directivity $U = (0.5^{+}(\frac{\pi}{4}(0.50))$ A+. $d = \frac{\pi}{4}$ Prod = 8.7119 $D_0 = 1.44244$

= 1.5 flodB $kd = \frac{2\pi}{\lambda} \cdot \frac{\lambda}{4} = \frac{\pi}{2}$

AF(6)=465°(\$ 656)

Thus the array factor is equal to

 $AF(\theta) = 2[1 + \cos(kd\cos\theta)] = 4\cos^2(\frac{kd}{2}\cos\theta)$

which in normalized form can also be written as $AF(\theta)_n = 1 + \cos(kd\cos\theta) = 26s^2(\frac{kd}{2}\cos\theta)$

b. The nulls of the pattern can be found using either of the above forms for the array factor. For example

One Form

the other Form

AF(0) = 1+ cos(kd coson) = 0

2005 (kd cosen) =0

Cos(kd cos on) = -1

 $\frac{kd}{3}$ OSEn = OS (0) = $\frac{n\pi}{2}$, n=±1, ±3.

kd cos on = cos (-1) = nt, n= ±1,±3,...

On=cosi(nx(2d)), n=±1,±3,...

Gn = cos (n2/2d), n=±1,±3,±5,...

which are of identical form. Therefore both forms yield the same results. Thus for $d=\frac{7}{4}$

 $\theta_n = \cos^{-1}(\frac{n\lambda}{2d})_{d=\lambda/4} = \cos^{-1}(2n), n=\pm 1, \pm 3, \dots \Rightarrow \text{No nulls exist.}$

C. Similarly the maxima of the pattern can be found using either of the two forms for the array factor. For example

(Continued)

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