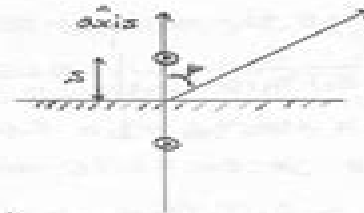


15-1.

$$\begin{aligned} \text{Array Factor} \\ = c [e^{i k s \cos \psi_1} - e^{-i k s \cos \psi_2}] \\ (\text{in far-zone: } \psi_1 = \psi_2 = \psi,) \end{aligned}$$

$$AF = 2j \sin(k s \cos \psi)$$

$$\leftarrow \cos \psi = \hat{a}_{\text{axis}} \cdot \hat{a}_r$$



15-2. a. For all three corner reflectors

($\alpha = 60^\circ, 45^\circ, 30^\circ$), the geometrical coordinate system shown in the adjacent figure will be used.

The sources will be numbered so that the feed will be #1. The images will be designated as #2, #3, ...

(in a counter clock wise rotation) as shown in Figure 15.4(b) for the 90° corner reflector.

$$\alpha = 60^\circ$$

Using the source arrangement of Figure 15.3(b)

$$E(r, \theta, \phi) = \left(\frac{e^{i k r_1}}{r_1} + \frac{e^{i k r_2}}{r_2} + \frac{e^{i k r_3}}{r_3} + \frac{e^{i k r_4}}{r_4} + \frac{e^{i k r_5}}{r_5} + \frac{e^{i k r_6}}{r_6} \right) f(\theta, \phi)$$

for the main source (#1) and the five images. For far-field observations

For phase terms

$$r_1 \approx r - s \cos \psi_1 = r - s (\hat{a}_r \cdot \hat{a}_r) = r - s \sin \theta \cos \phi$$

$$r_2 \approx r - s \cos \psi_2 = r - s [(0.5 \hat{a}_x + 0.866 \hat{a}_y) \cdot \hat{a}_r] = r - s (0.5 \sin \theta \cos \phi + 0.866 \sin \theta \sin \phi)$$

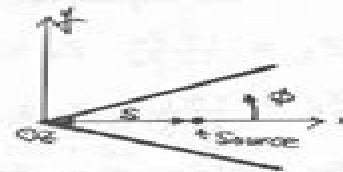
$$r_3 \approx r - s \cos \psi_3 = r - s [(-0.5 \hat{a}_x + 0.866 \hat{a}_y) \cdot \hat{a}_r] = r - s (-0.5 \sin \theta \cos \phi + 0.866 \sin \theta \sin \phi)$$

$$r_4 \approx r - s \cos \psi_4 = r - s (-\hat{a}_x \cdot \hat{a}_r) = r + s \sin \theta \cos \phi$$

$$r_5 \approx r - s \cos \psi_5 = r - s [(0.5 \hat{a}_x - 0.866 \hat{a}_y) \cdot \hat{a}_r] = r + s (0.5 \sin \theta \cos \phi + 0.866 \sin \theta \sin \phi)$$

$$r_6 \approx r - s \cos \psi_6 = r - s [(0.5 \hat{a}_x - 0.866 \hat{a}_y) \cdot \hat{a}_r] = r + s (-0.5 \sin \theta \cos \phi + 0.866 \sin \theta \sin \phi)$$

$$\text{where } \hat{a}_r = \hat{a}_x \sin \theta \cos \phi + \hat{a}_y \sin \theta \sin \phi + \hat{a}_z \cos \theta$$



(Continued)

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