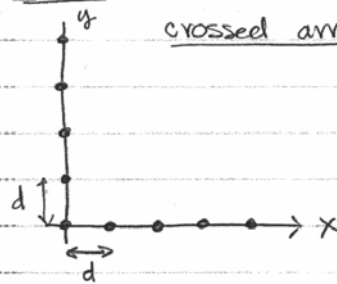
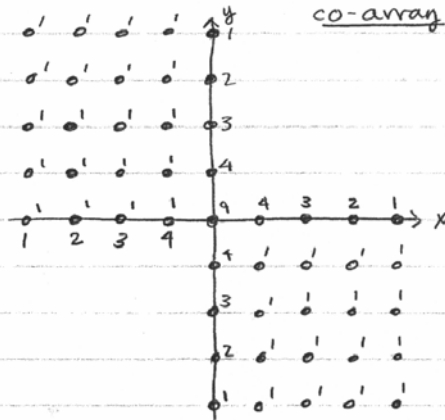


5.4.3 ①

5.4.3



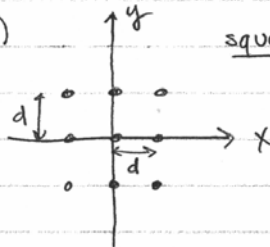
crossed array



co-array

b) see plots

c)



square array

Crossed Array $DI = 9.57 \text{ dB}$

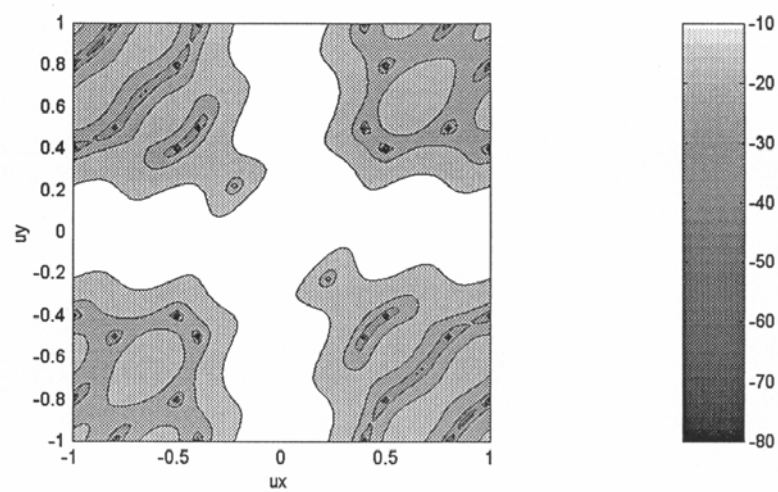
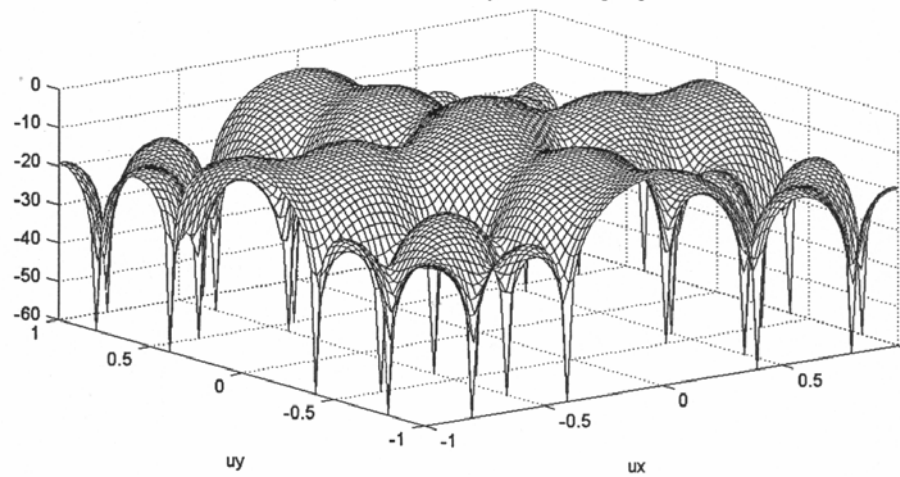
Square Array $DI = 10.45 \text{ dB}$

The crossed array has a larger but more sparse aperture than the square array.

The crossed array has essentially no resolution capability in the $\phi = 0$ and $\phi = \pi/2$ directions, but has increased resolution (smaller beamwidth) in the $\phi = -\pi/4$ direction.

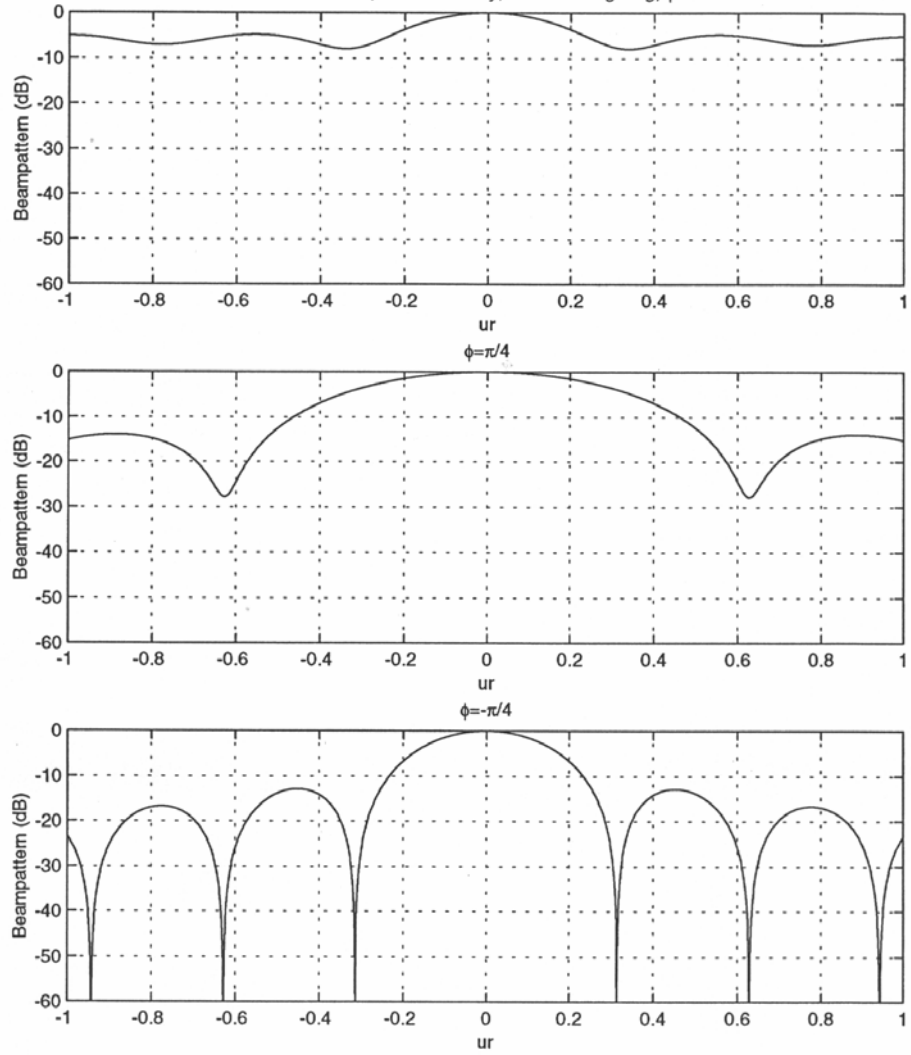
5.1.3 ②

Prob. 5.4.3, Crossed Array, Uniform weighting



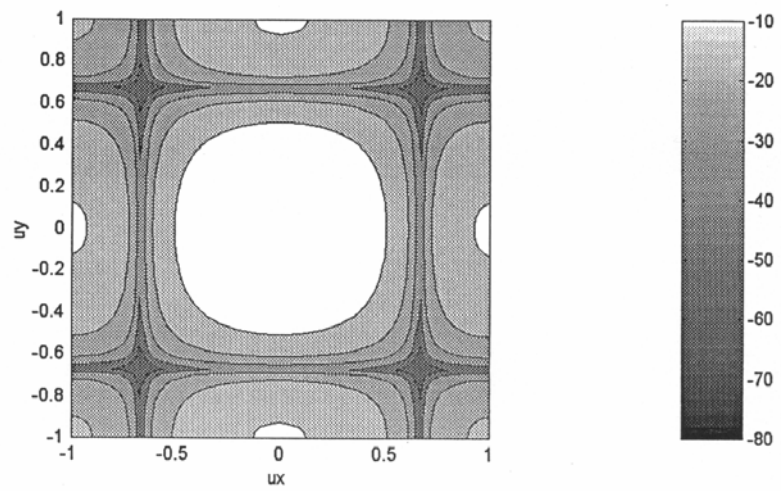
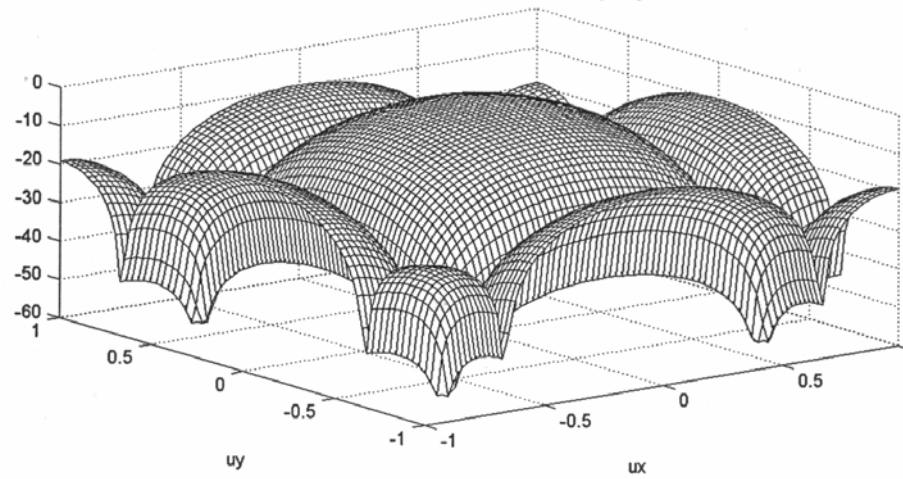
S.1.3 ⑥

Prob. 5.4.3, Crossed Array, Uniform weighting, $\phi=0$

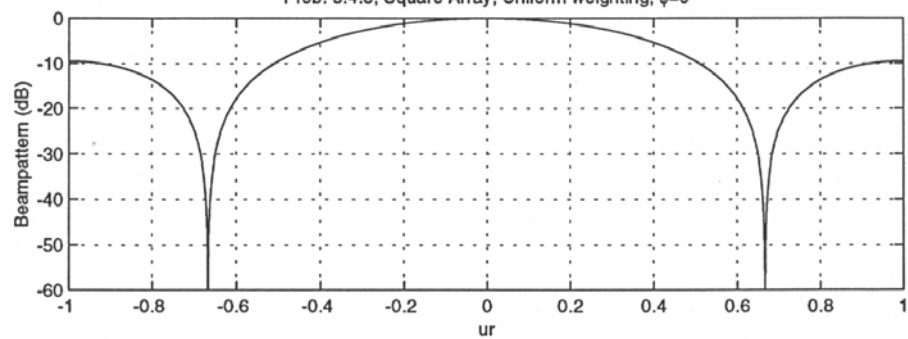


5.4.3 ④

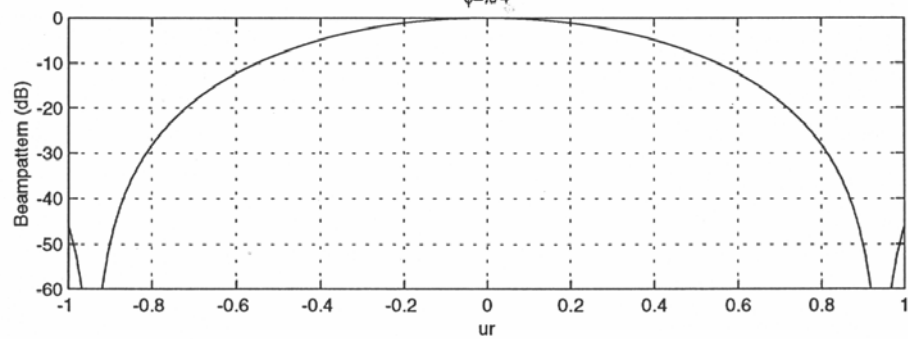
Prob. 5.4.3, Square Array, Uniform weighting



Prob. 5.4.3, Square Array, Uniform weighting, $\phi=0$



$\phi=\pi/4$



$\phi=-\pi/4$

