6.7.2

(a) see plots

(b) see plots

(c) to match to Bc

Q = same

P= (ud (u) (v(u) # 1/N) dy

P = Q. 1/N

- all behave vobustly for SWR = -10,0 dB

-different types of degradation for SUR= 10,20 dB

- eigenvector similar to directional

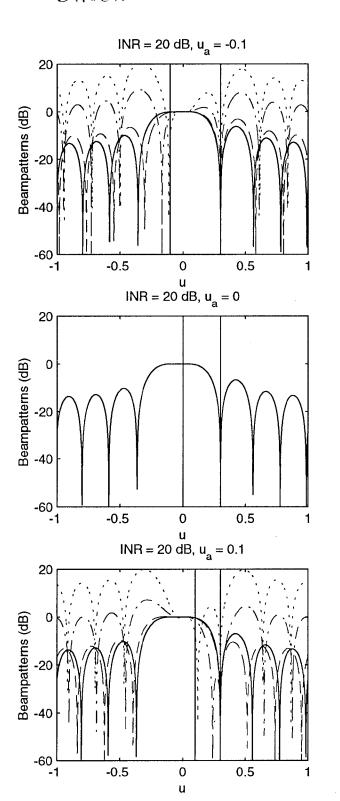
- INR does not have much effect - in per sidelibe

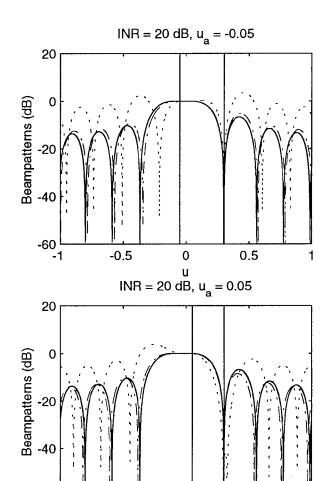
#### Directional Constraints

-0.0433,0,0.0433

-60 <sup>L</sup> -1

-0.5





SNR = -10 dB
 SNR = 0 dB
 SNR = 10 dB
 SNR = 20 dB

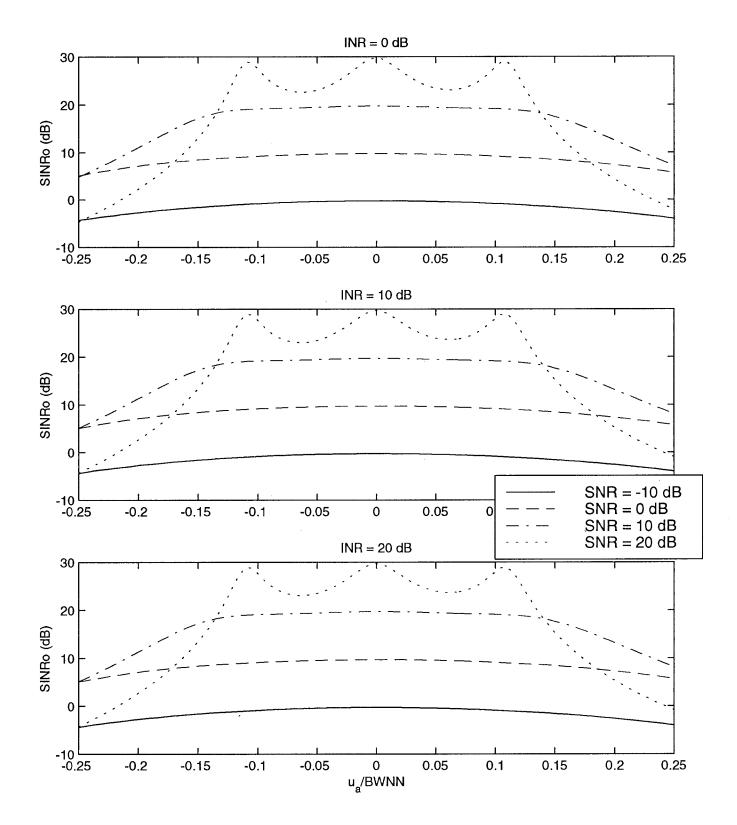
0

u

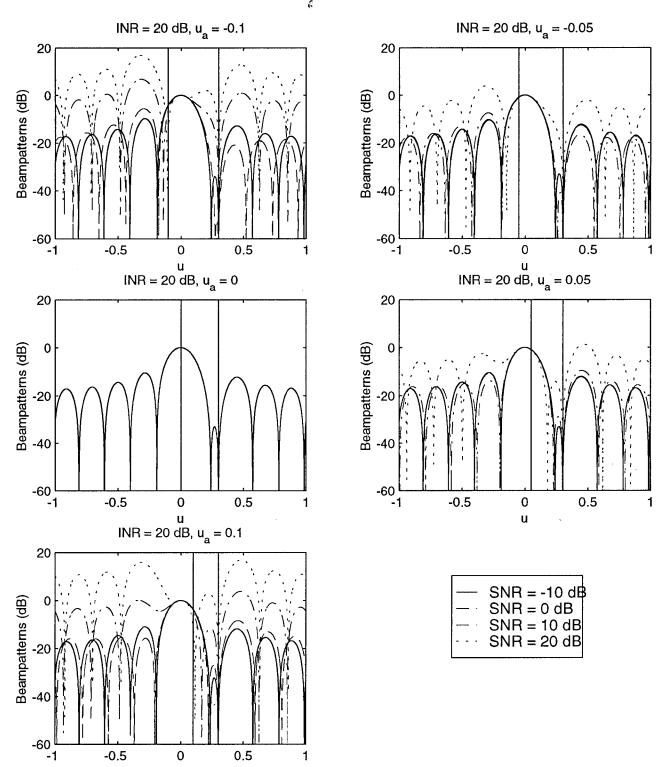
0.5

Directional -0.0433,0,0.0433

1 matches Bc

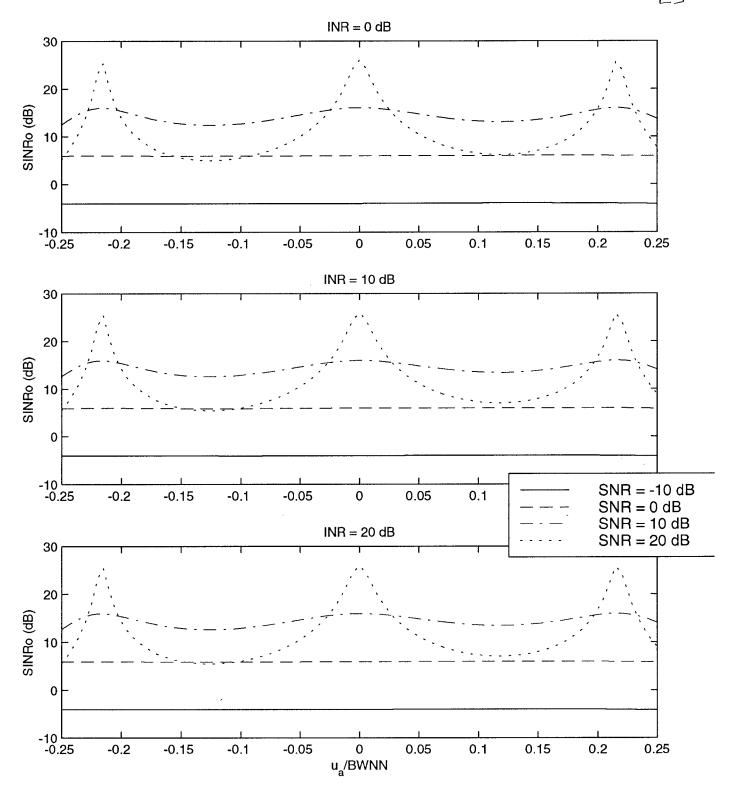


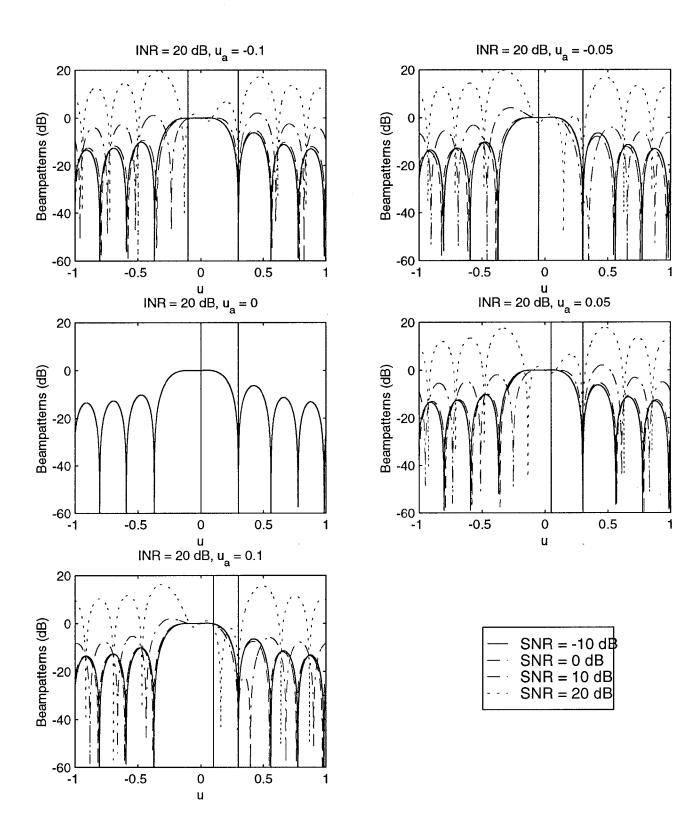
# Directional un= 5-0.0433 0 0.0433)



6.7.2 6/28

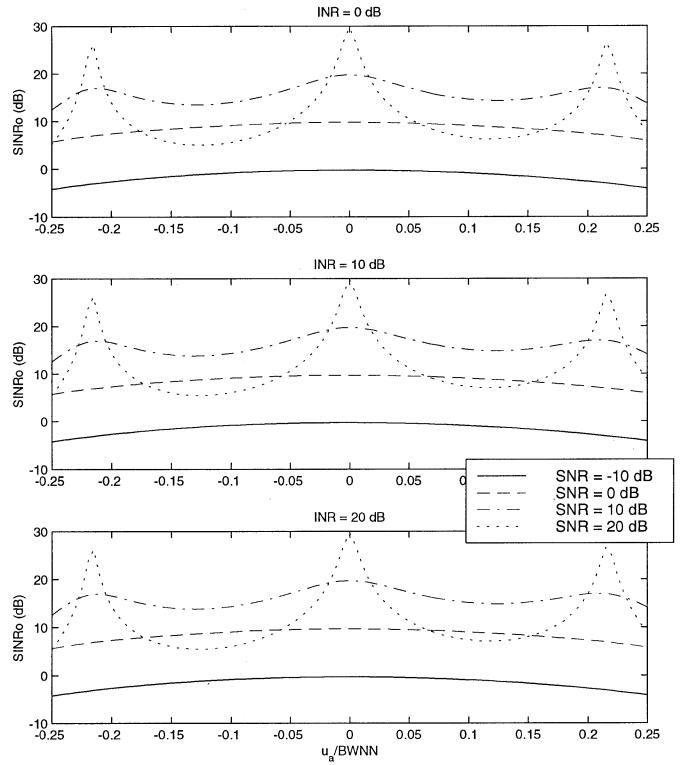
Directional Constraints ue= [-0.0866 0 0.0866] g= []



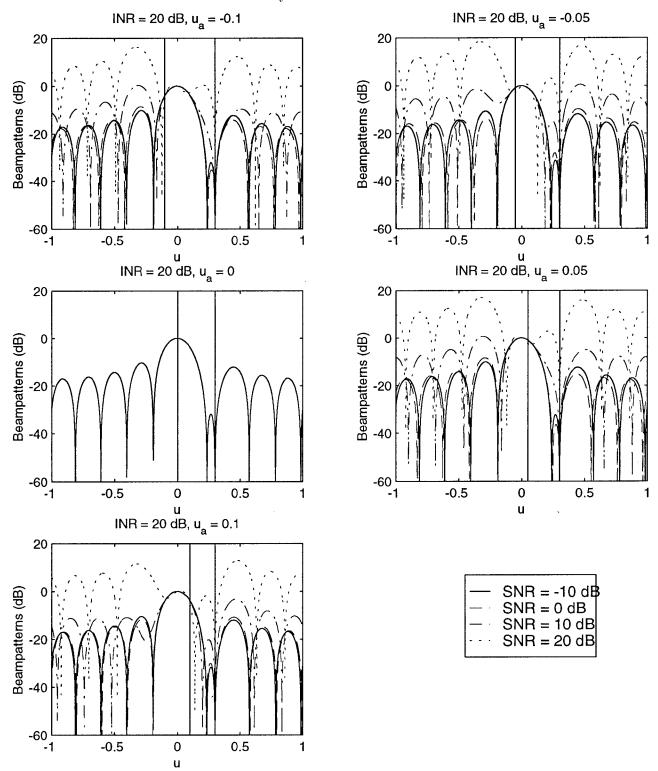


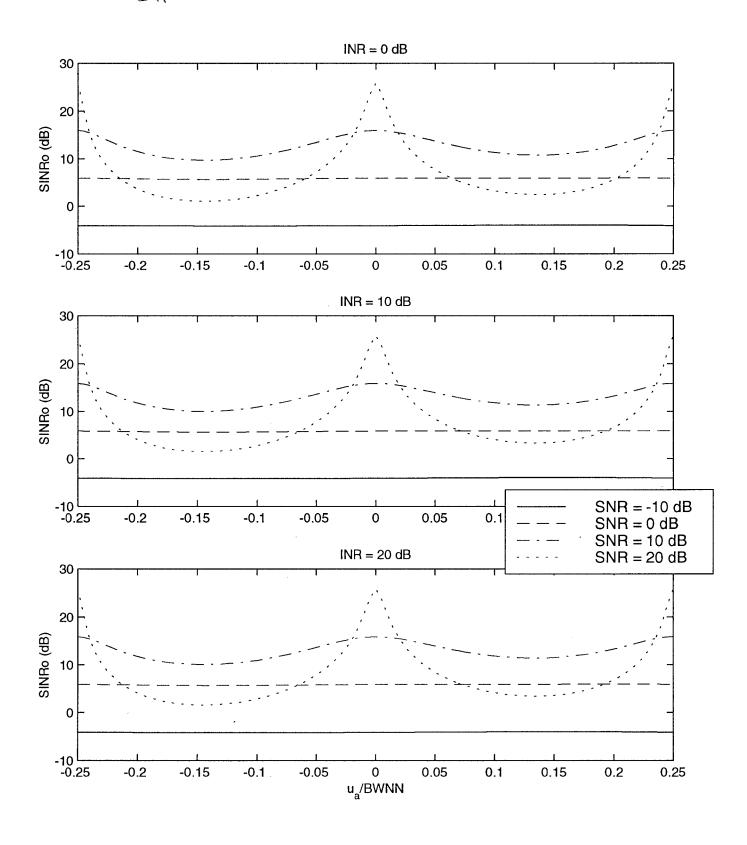
Directional uc= -0.0866, 0.0.0866

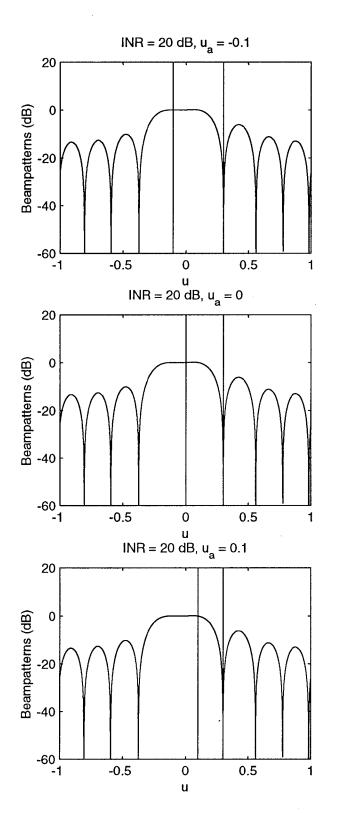
g matches &c

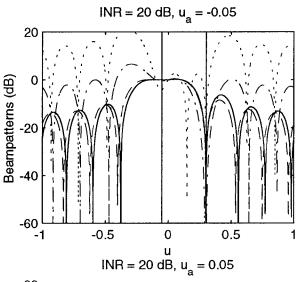


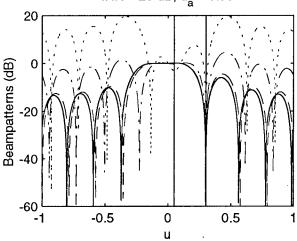
## Directional U= -0.0844, 0,0.0866





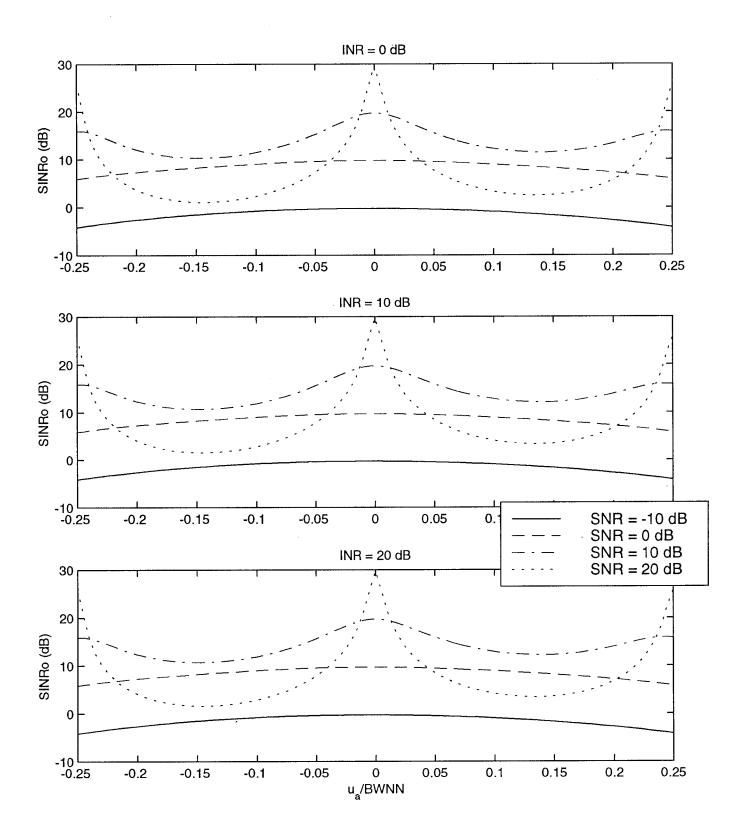




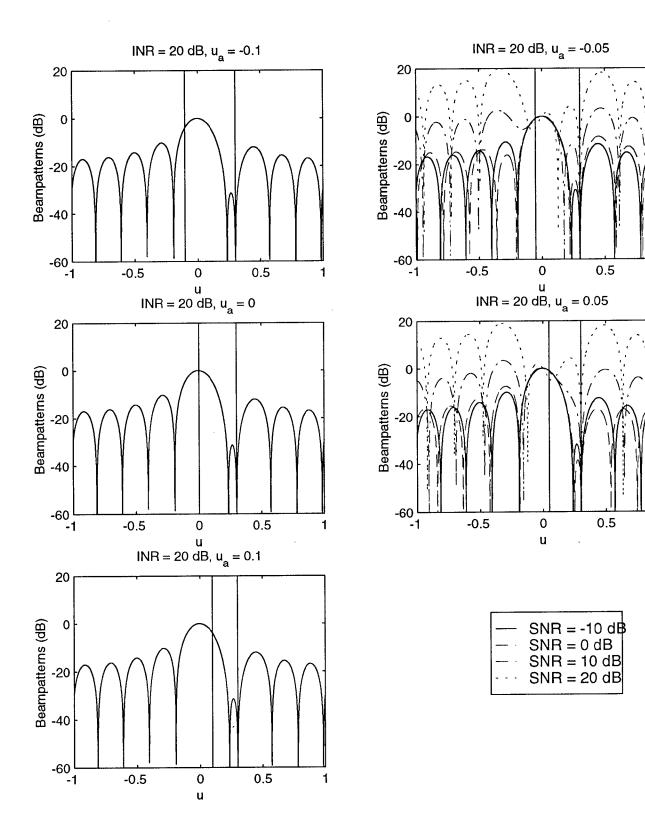


SNR = -10 dB SNR = 0 dB SNR = 10 dB SNR = 20 dB

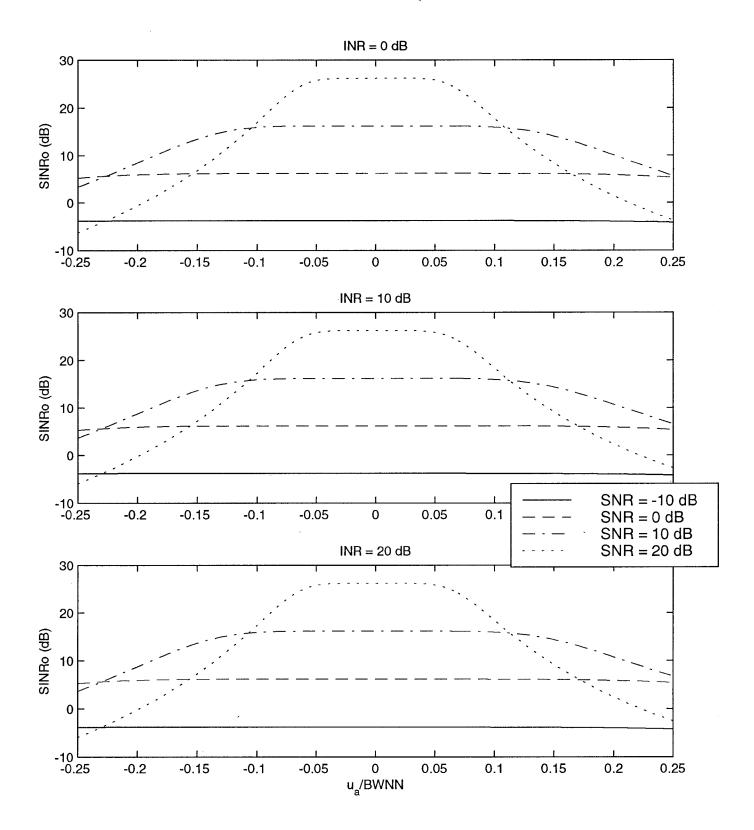
Directional u= 0.1,0,0.1 g matches De



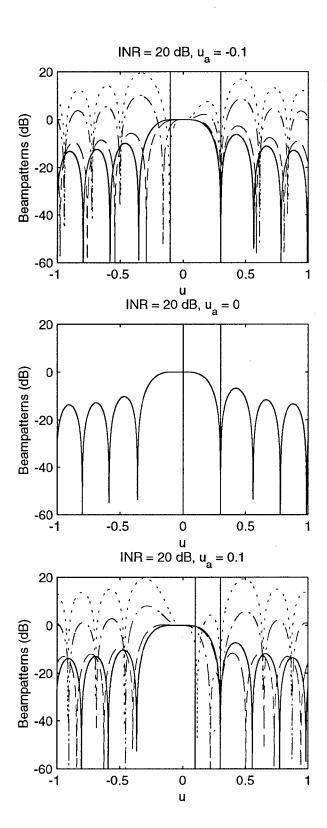
### Directional u= -0.1,0,0.1 g matches Ec

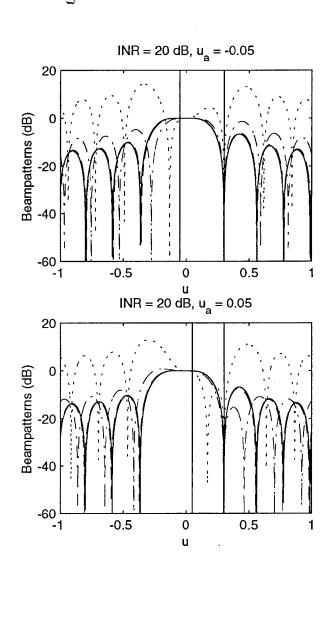


Derivative, g= [3]

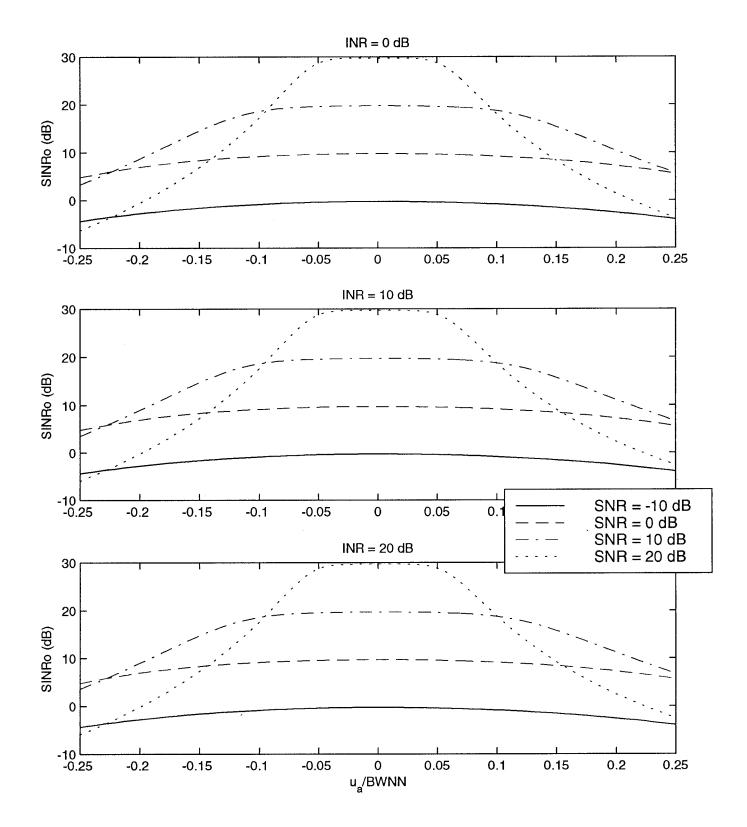


#### Derwate g 18

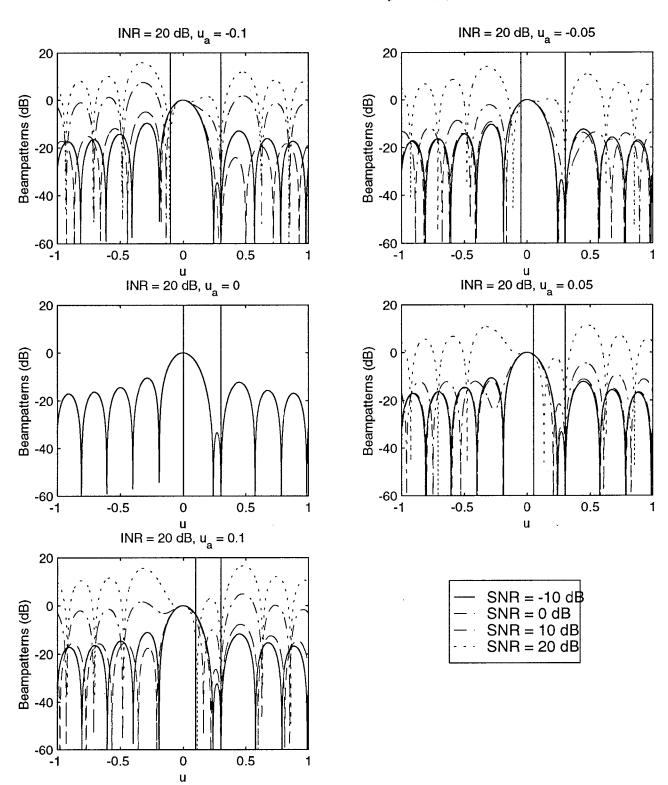




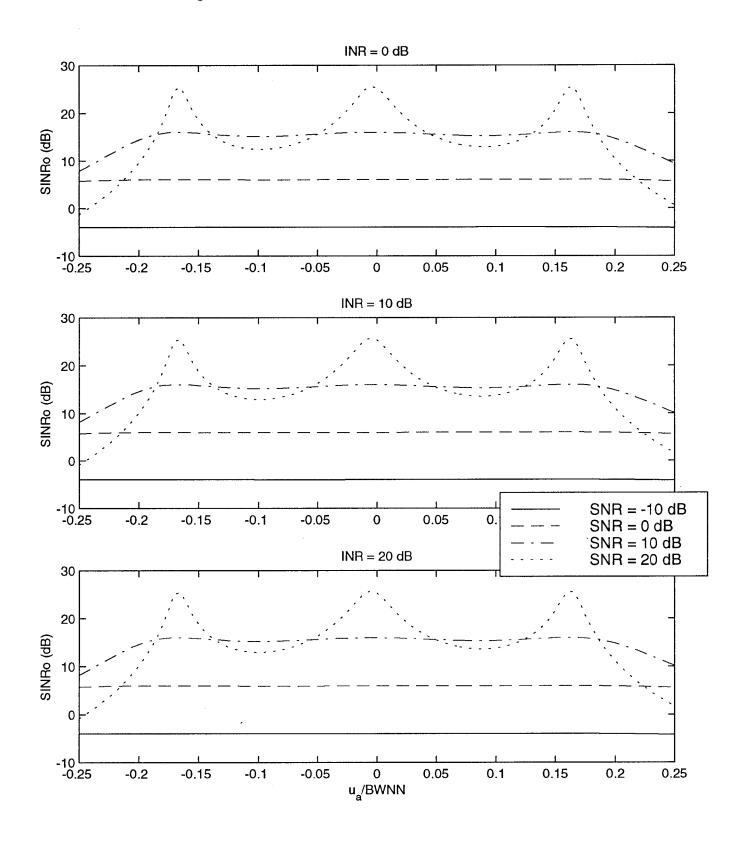
-- SNR = -10 dB -- SNR = 0 dB -- SNR = 10 dB -- SNR = 20 dB Derivative g = 100)



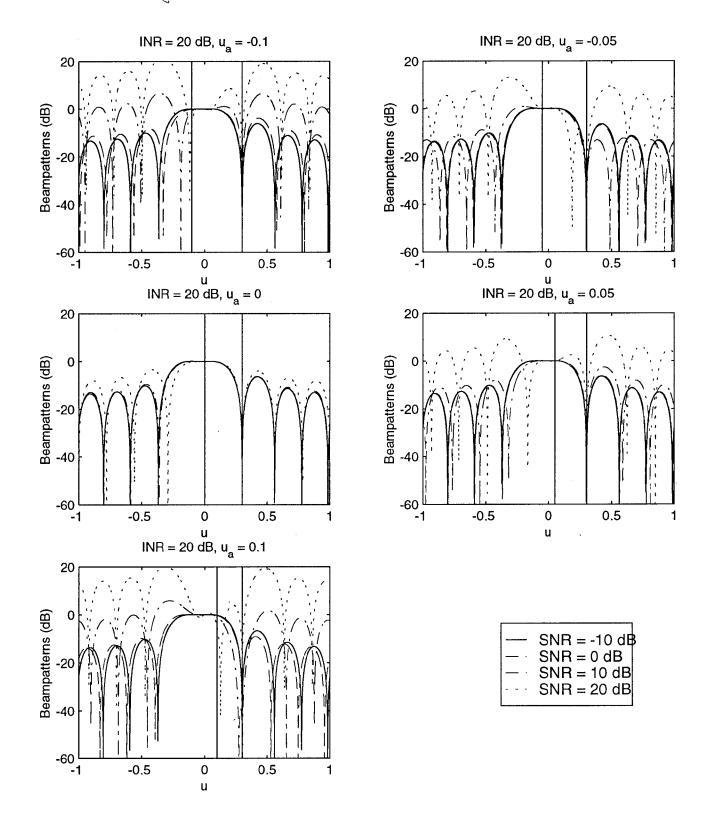
### Derivative , 3 = [0]



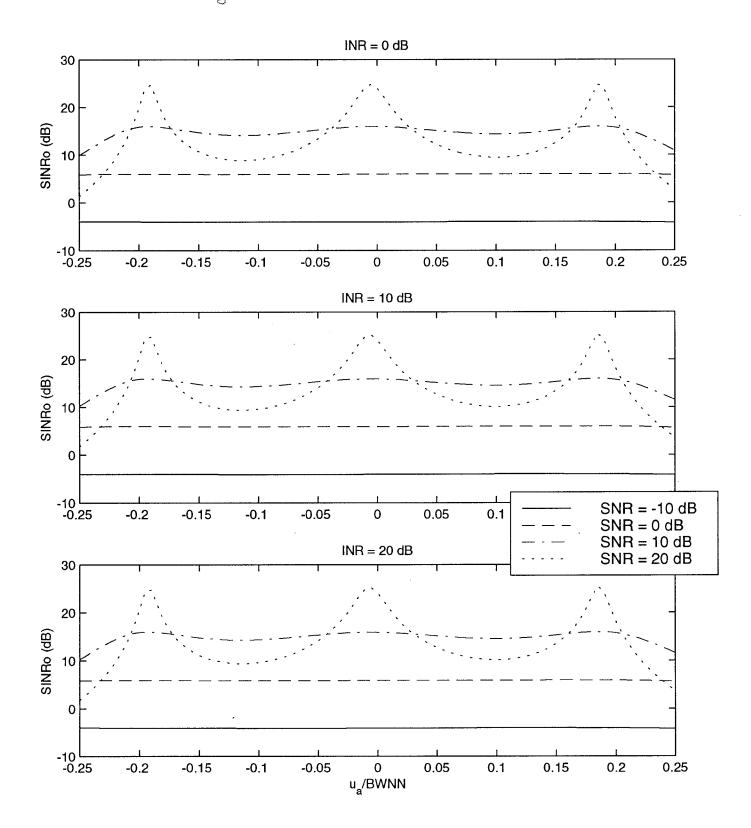
Eigenvector Bd = I Wie 0.0866 = HFBW



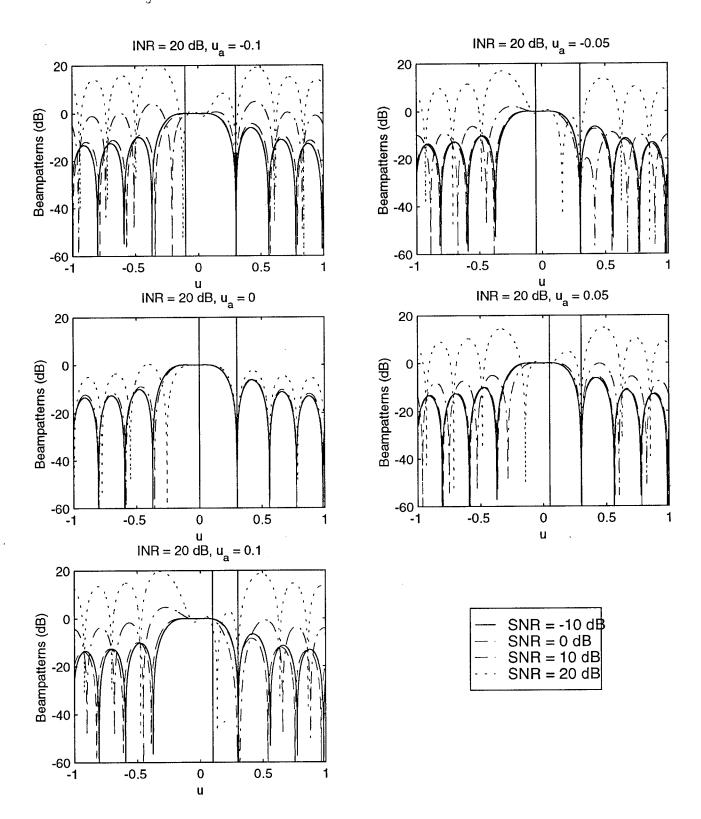
#### Eigenvector Bd = 1 lule 0.0806 = & HPBW



Eigenvector Ed = 1 |u1=0.1

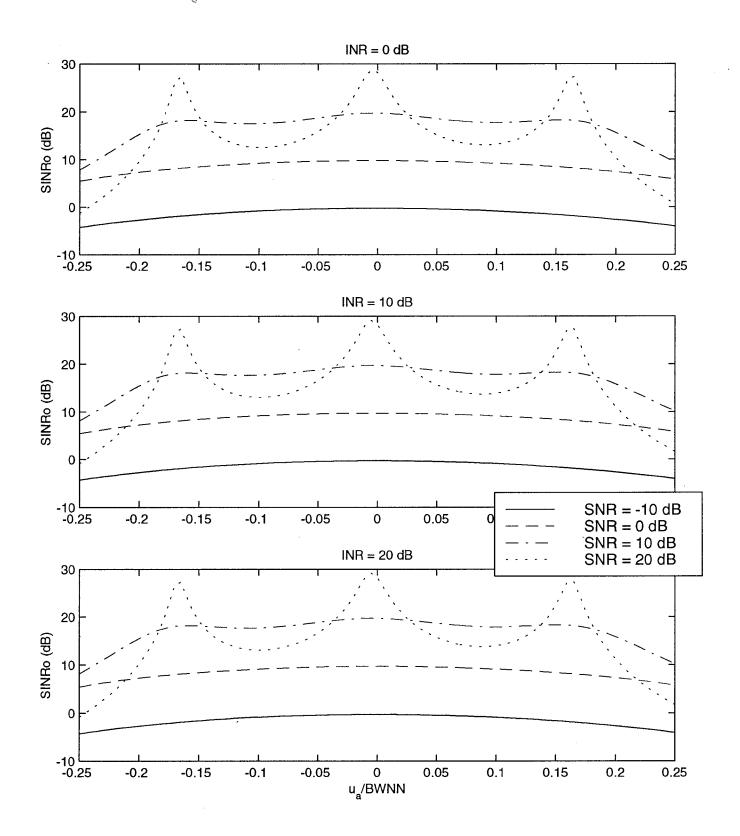


#### Eigenvector Ba = 1 191 = 0.1

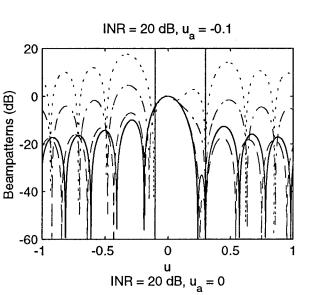


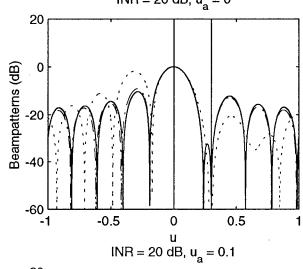
6.7.2 22/28

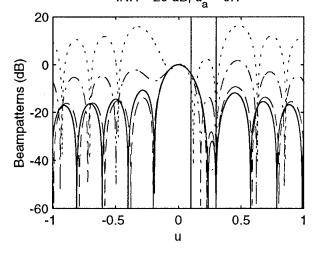
Eigenvector Bd=Bc 1416 0.0866=+178W

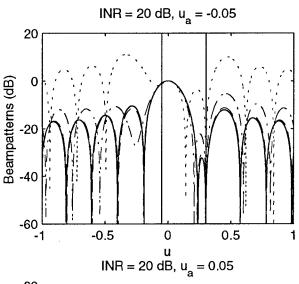


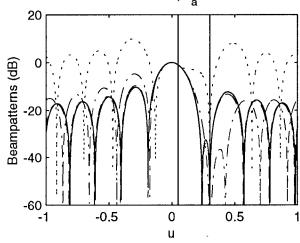
Eigenvector





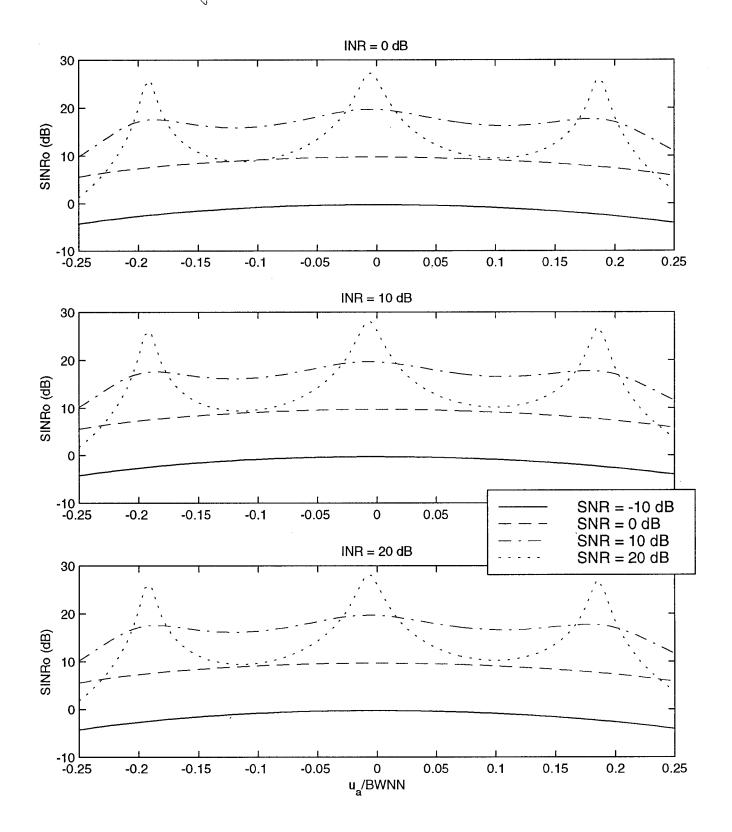






SNR = -10 dB SNR = 0 dB SNR = 10 dB SNR = 20 dB

Eigenvector Bd=Bs 14160.10



Ergenvector

Bd= B | 14160,1

