



	Soution:		
,	following scenario:		
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	Spread interferer (moves) Signal of interest (fixed)		
	Spread interferer (Variable width) $\sigma_{\overline{1}}^2 = 100$ (fixed)		
	$a_5 = 100$		
	(fixed)		
	15 01 0.3		
(a)	The second spread interferer has variable		
	The second spread interferer has variable width, but some width as the first one.		
(1)			
(b)	$-1 \leq v_{12} \leq 1$		
(c)	Signal of interest from us = 0		
(d)	The INR of the second interferer varies		
(6)	The white noise floor is set to one.		
	The beamformer is designed assuming		
	narrouband interferers:		
	INR of interferer #1 = 20 dB		
	INR of second interferer is variable		

		5
		d array again us upodb 10,00,10 and 25db
(c)	Solution:	Plat beam patterns and gains. s in the code I used to Beampatterns are attached as Tabulated below.
		Gain W/ Correct Sp(W) (dB)
	OFI DICE	Carry W. Carrett Species
	0	32.74 (32.74)
	0.1	32.37 (31.27)
	0,2	32.12 (28.7)
	0.4	31.61 (24.7)
	The numbers in provided by	the MVDR processor that The for both interferers
	1	

2	As the bandwidth increases, the performance degradation becomes more apparent.		
	More apparent. Bram pattern plats follow.		













