بسمه تعالى

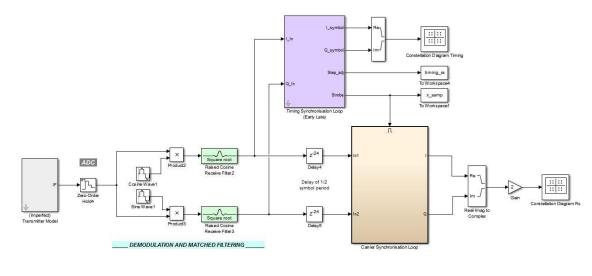
آزمایشگاه مخابرات دیجیتال

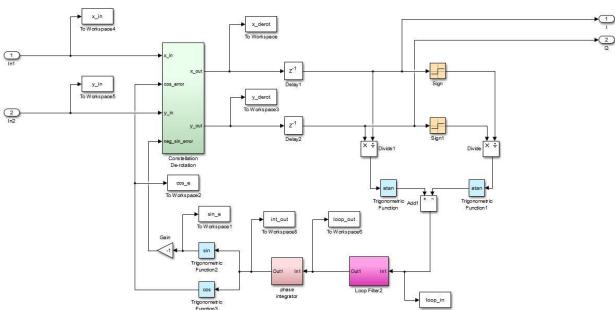
گزارش کار هفته دهم

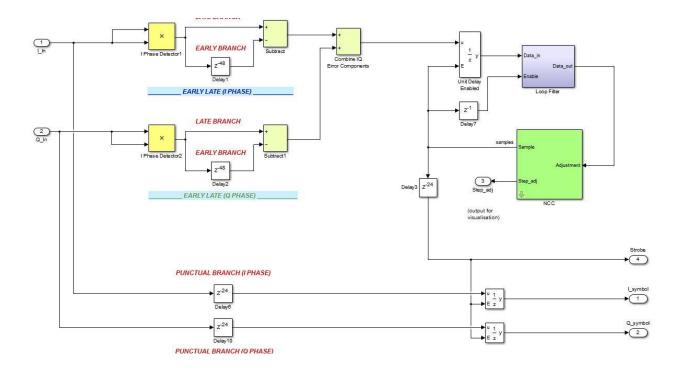
دانيال كوشا 972013152

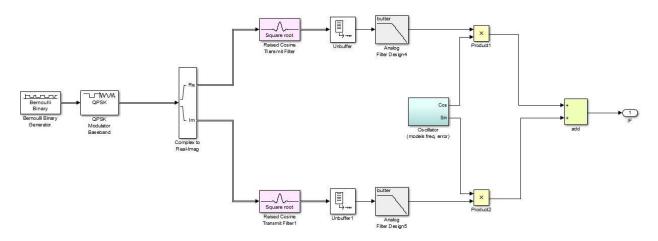
دانشکده فنی و مهندسی گروه مهندسی برق دانشگاه اصفهان

آزمایش 6-10- همزمان سازی توام حامل و زمان نمونه برداری در QPSK



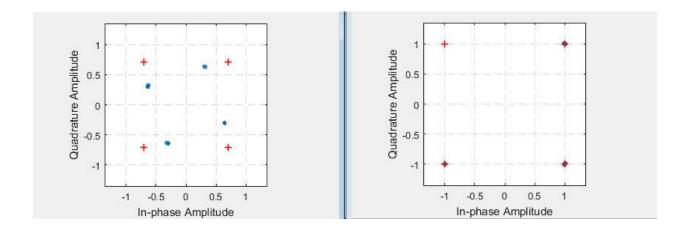




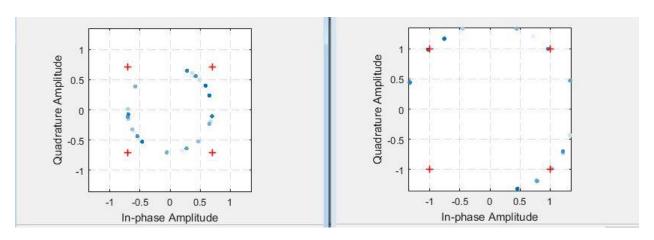


	Model of a QPSK Transmitter with Timing and Frequency Offsets (mask) Enter the timing and frequency offsets that apply to the received signal. Both of these can be negative or positive values. Negative means that the timing / frequency of the transmitter is lower than expected.	
	Parameters	
	Timing Error (ppm)	
	50	
	Frequency Error (Hz)	
	-200	
	OK Cancel Help Apply	
Model of a QPSK Transmitter with Timing and Frequency Offsets (mask) Enter the timing and frequency offsets that apply to the received signal.	File Tools View Simulation Help File Tools View Simulation Help File Tools View Simulation Help	
Both of these can be negative or positive values. Negative means that the timing / frequency of the transmitter is lower than expected.		383 22
Parameters	Ouadrature Amplitude Ouadrature Amplitude Ouadrature Amplitude	4
Fiming Error (ppm)	A Mig	
O Programmy Error (UT)	afure	
Frequency Error (Hz) -20	Ouadratur	1
	o 1	+-+-
	-1 -0.5 0 0.5 1 -1 -0.5 0	0.5 1

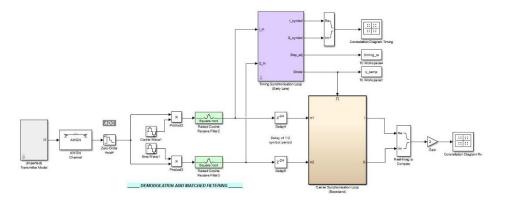
با اختلاف 20 هرتز



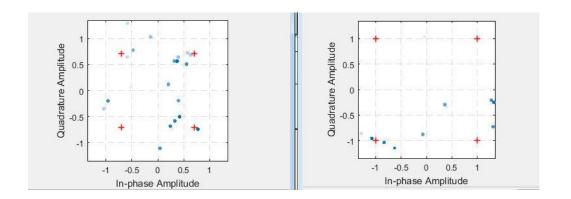
با اختلاف 2000 هرتز



حال نويز را اضافه مي كنيم.



به ازای واریانس 0.1



به ازای واریانس 0.0001

