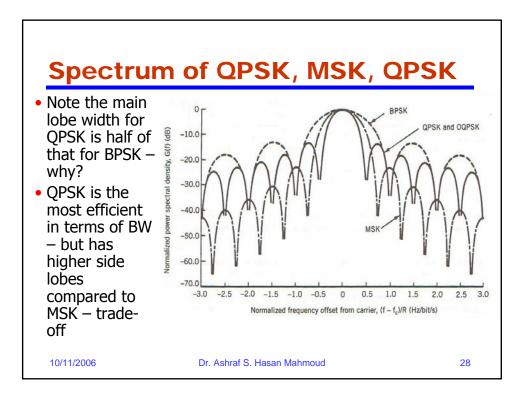


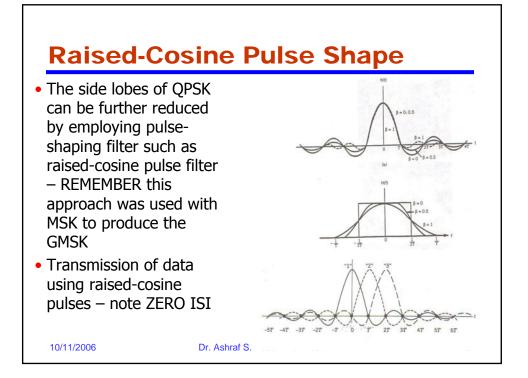
Therefore, y1(t) is d1(t) (scaled) and y2(t) is d2(t) (scaled)

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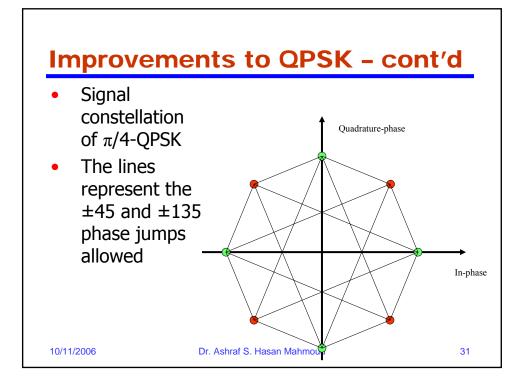
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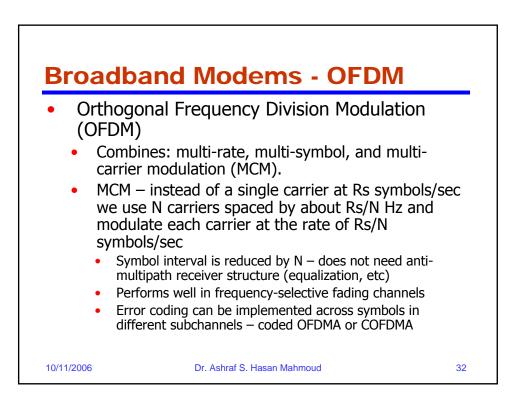
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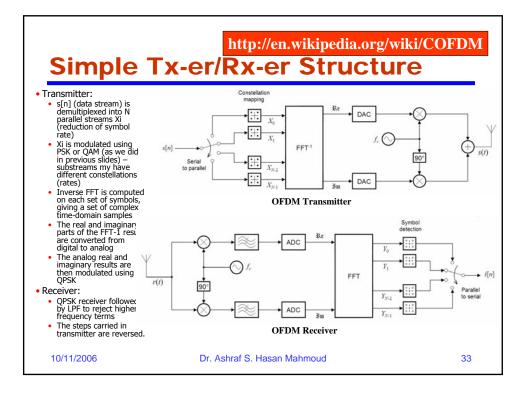


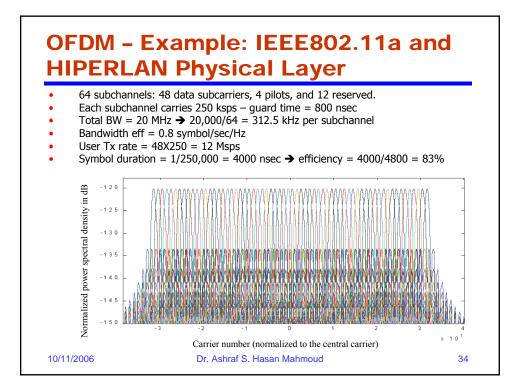


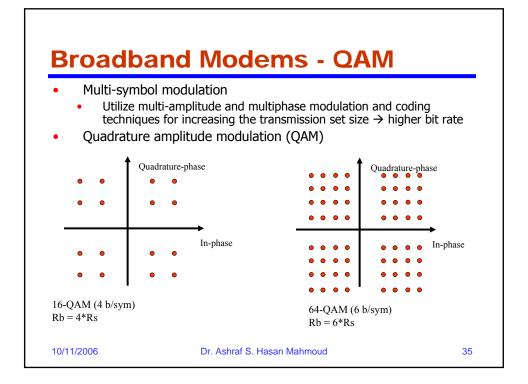
Improve	ements to QPSK	
Same as T/2 seco Enve fluctu ±180 degre OOPS	lopes of the I and Q symbols overlap \rightarrow less amplitude lation in the overall signal degrees phase jumps are eliminated – instead ±90 less jumps SK provides better consistency of envelope and phase	t by
		pler
 Signal c seconds Diminish Same base 	onstellation for QPSK is shifted ±45 degrees every (symbol). The amplitude fluctuations andwidth efficiency as QPSK ions: IS-136 use π /4-QPSK	γT
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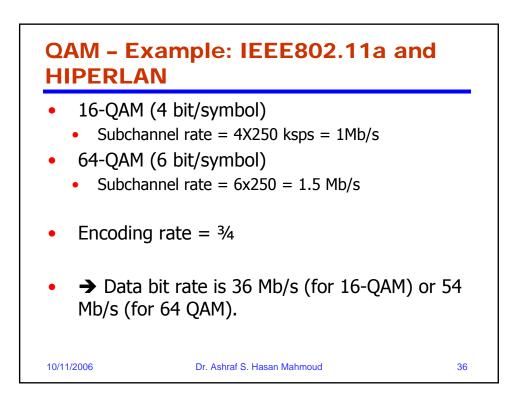


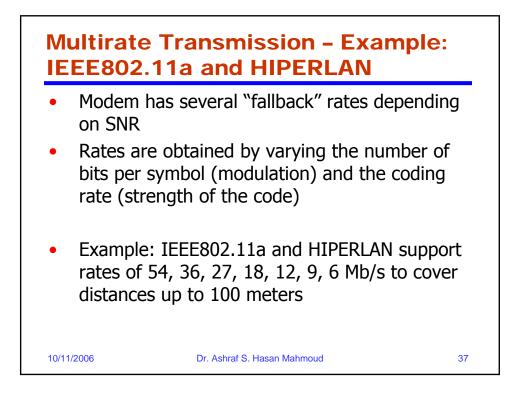












EE802.11a and HIPERLAN – cont'd						
	/sical layer ing on the p			IT data rate ality		
Data rate (Mb/s)	Modulation	Coding rate	Ndbps*	1472 byte transfer duration (µs)		
6	BPSK	1/2	23	2012		
9	BPSK	3/4	36	1344		
12	4-QAM	1/2	48	1008		
18	4-QAM	3/4	72	672		
24	16-QAM	1/2	96	504		
36	16-QAM	3/4	144	336		
48	64-QAM	2/3	192	252		
54	64-QAM	3/4	216	224		

