



































CHAPTER 3a. ANALYSIS OF TENSION MEMBERS Slide No														lide No. 1		
Design Strength of Tension Members																
	1.000					Applicable Shape Series										
	Steel Type	ASTM Designation		F, Min. Vield Stress (ksi)	F _a Tensile Stress ² (ksi)	w	м	5	нр	с	MC	L	Rect. E	Round S	Steel Pipe	
		A36 A53 Gr. B		36	58-80 ^b	1000										
Table 1				35	60										and the second se	
	Carbon	A.500	Gr.B	42	58											
				46	58									-		
			Gr.C	46	62											
				50	- 62										1.	
		A.501		36	58								-			
		A5297	Gr.50	50	65-100				<u>1</u> 22 -		1					
			Gr: 55	55	70-103		ROP.					3				
	Eligh- Strength Low Alloy	A572 A618 ¹	-Gr. 42	42	60	1997			1 11	11.16	101-1					
			Gr. 50	50	6.51					12	100				1.00	
			Gr.35	33	20	0	1000			110	mull.	101				
			Gr. 60"	60	75			12			21.25	1.5		-		
			Gr. 65"	65	- 80		-	200		1	140	in the				
			Gr. I & II	50.5	70 ^g											
			Gr.III	50	-65					_				12.27		
		A9(3	50	50 ^h	.60	1.1	245				1					
			190	60	75					-		in the second				
			65	65	80			L.,	1		102					
			- 20	70	- 90	10.84	1	30		1						
		A992		50-651	- 65							_				
	Corrosion Resistant High- Strength Low-Alloy	A242		421	63					_						
				46 ^k	67 ⁸		1			_	-	_	1			
				50	-70*	-	1	-	in	-		1	-	-		
		A.588		50	70								1.12			
Hall		A	5471	50	70											

























