























































Contraction of the second	CHAPTER 10b. BOND DEVELOPMENT OF REINFORCING BARS									Slide No. 28	
. A Solar	Sim	ple	-Spa	an B	ar (Cuto	offs	and	Bet	154 ©Assakkaf 105	
	• E	Exam	ple 3	3 (COI	nťd):	·	D	(; 2)			
	Table 2. Areas of Multiple of Reinforcing Bars (in ²)										
	Number	Bar number									
	of bars	#3 0.11	#4 0.20	ຈວ	#0	#1	# 0	1.00	#10	#11	
-	1	0.11	0.20	0.51	0.44	0.00	0.79	2.00	1.27	2.12	
	2	0.22	0.40	0.62	0.88	1.20	1.58	2.00	2.54	3.12	
	3	0.55	0.00	0.95	1.32	1.60	2.57	3.00	5.00	4.08	
	4	0.44	0.80	1.24	1.70	2.40	3.10	4.00	5.08	0.24	
	5	0.55	1.00	1.55	2.20	3.00	5.95	5.00	0.55	7.80	
	0	0.00	1.20	1.80	2.04	3.00	4./4	0.00	/.02	9.30	
	/	0.77	1.40	2.17	3.08	4.20	5.55	7.00	0.09	10.92	
	0	0.00	1.00	2.40	2.06	4.60	0.52	0.00	10.10	12.48	
	9	0.99	1.80	2.19	5.90	5.40	7.11	9.00	11.45	14.04	
	10	1.10	2.00	5.10	4.40	0.00	7.90	10.00	12.70	13.00	
-											
ter-	4 5 6 7 8 9 10	0.44 0.55 0.66 0.77 0.88 0.99 1.10	0.80 1.00 1.20 1.40 1.60 1.80 2.00	1.24 1.55 1.86 2.17 2.48 2.79 3.10	1.76 2.20 2.64 3.08 3.52 3.96 4.40	2.40 3.00 3.60 4.20 4.80 5.40 6.00	3.16 3.95 4.74 5.53 6.32 7.11 7.90	4.00 5.00 6.00 7.00 8.00 9.00 10.00	5.08 6.35 7.62 8.89 10.16 11.43 12.70	6.2 ⁴ 7.80 9.30 10.9 12.4 14.0 15.6	





Simple-S	relopment of reinfor nan Bar	rcing bars Cutoffs	Slide No. S and Bends
Example	3 (cont'd):		
Table 3. AST	M Standard - Er	nglish Reinfo	rcing Bars
Bar Designation	Diameter in	Area in ²	Weight Ib/ft
#3 [#10]	0.375	0.11	0.376
#4 [#13]	0.500	0.20	0.668
#5 [#16]	0.625	0.31	1.043
#6 [#19]	0.750	0.44	1.502
#7 [#22]	0.875	0.60	2.044
#8 [#25]	1.000	0.79	2.670
#9 [#29]	1.128	1.00	3.400
#10 [#32]	1.270	1.27	4.303
#11 [#36]	1.410	1.56	5.313
#14 [#43]	1.693	2.25	7.650
#18 [#57]	2.257	4.00	13.60
#18 [#57] Note: Metric des	2.257	4.00	13.60



















