CONCRETE DESIGN CALCULATOR: Quiz-4 Solution Section (3)

| Select Strength: | fy = 60000 psi; f'c = 4000 psi | | Select design ρ: | pmax | | Select Load Case: | 1.2D + 1.6L | |

f_y = 60000	f'_c = 4000	Design ρ = 0.0069	Est w_u [k/ft] = 1.78
ρ_{min} = 0.0033	ρ_{max} = 0.0181	Design R_u = 388.79	M_u [ft-k] = 227.8
R_u at ρ_{min} [psi] = 192.2	R_u at ρ_{max} [psi] = 912.0	bd^2 = 7813.549	M_u [ft-k] = 253.2
		d = 22.10	Density [pcf] 150

Enter Givens & Estimates:

						Neutral Axis Calculations:	N.A. is in the flange		If a > t	
w_D [k/ft]	0.55	b_w [in]	16	b_{eff} [in]	80				A_{sf} [in²]	10.88
w_L [k/ft]	0.4	h [in]	27	t [in]	3	T [kips] 142.2	z [in] = 21.60		M_{nw} [k-ft]	1224.00
Length [ft]	32	d [in]	24	a [in]	0.49	A_s [in²] 41.8	z [in] = 22.50		M_{nf} [k-ft]	996.16
Clear Cover [in]	3	A_s [in²]	2.65	β_1	0.85	A_{large} [in²] 240	Governing z 22.50		R_{nw}	1441.20
Est Self Wt [plf]	400	$A_{s,min}$ [in²]	1.214	c [in]	0.57				ρ_w =	0.03
Actual Self Wt [plf]	450.00	$A_{s,max}$ [in²]	1.280	ε_t	0.1227	Select A_s in Tension:		If a < ht	a [in]	14.64
		ϕM_n [ft-k]	253.36			BAR | Qty | As [in²]		A_s [in²] | 2.6496	c [in]	17.22
						#8 | 3 | 2.37			ε_t	0.00
									A_{sw} [in²]	13.27
									A_s [in²]	24.15

Bar Selection:

	Number of Bars in a Single Layer of Reinforcing															
BAR	2		3		4		5		6		7		8	
	Area	Width	Area	Width	Area	Width	Area	Width	Area	Width	Area	Width	Area	Width
#4	0.39	6.80	0.58	8.30	0.78	9.80	0.98	11.30	1.18	12.80	1.37	14.30	1.57	15.80
#5	0.61	6.90	0.91	8.50	1.23	10.20	1.53	11.80	1.84	13.4	2.15	15.00	2.45	16.70
#6	0.88	7.00	1.32	8.80	1.77	10.50	2.21	12.30	2.65	14.00	3.09	15.80	3.53	17.50
#7	1.20	7.20	1.80	9.00	2.41	10.90	3.01	12.80	3.61	14.70	4.21	16.50	4.81	18.40
#8	1.57	7.30	2.35	9.30	3.14	11.30	3.93	13.30	4.71	15.30	5.50	17.30	6.28	19.30
#9	2.00	7.60	3.00	9.80	4.00	12.10	5.00	14.30	6.00	16.60	7.00	18.80	8.00	21.10
#10	2.53	7.80	3.79	10.40	5.06	12.90	6.33	15.50	7.59	18.00	8.86	20.50	10.12	23.10
#11	3.12	8.10	4.68	10.90	6.25	13.80	7.81	16.60	9.37	19.40	10.94	22.20	12.50	25.00
#14	4.50	8.90	6.75	12.30	9.00	15.70	11.25	19.00	13.50	22.40	15.75	25.80	18.00	29.20
#18	8.00	10.60	12.00	15.10	16.00	19.60	20.00	24.10	24.00	28.60	28.00	33.10	32.00	37.70

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Global Advances in Engineering Education J.P. Mohsen,Mohamed Y. Ismail,Hamid R. Parsaei,Waldemar Karwowski,2019-05-03 The engineering profession is at a critical juncture that requires reforming engineering education The supply of engineers is declining whereas the nature of the demand is changing Formulating a response to these challenges demands the adoption of new and innovative tools and methods for promoting the expansion of the community while supporting these evolving requirements Initiatives to entice and retain students are being employed to support growth objectives Modern technologies are reshaping reform efforts This book discusses the state of affairs in the field of engineering education and presents practical steps for addressing the challenges in order to march toward a brighter future Features Covers the latest state of engineering education in the North America Europe Middle East North Africa and Far East Asia Discusses advances in science technology engineering and mathematics and community engagement Outlines applications of digital technologies to enhance learning Provides advances in remote and online instructions for engineering education Presents discussions on innovation leadership and ethics *Spreadsheet Problem Solving and Programming for Engineers and Scientists* David E. Clough,Steven C. Chapra,2023-10-19 Spreadsheet Problem Solving and Programming for Engineers and Scientists provides a comprehensive resource essential to a full understanding of modern spreadsheet skills needed for engineering and scientific computations Beginning with the basics of spreadsheets and programming this book builds on the authors decades of experience teaching spreadsheets and programming to both university students and professional engineers and scientists Following on from this it covers engineering economics key numerical methods and applied statistics Finally this book details the Visual Basic for Applications VBA programming system that accompanies Excel With each chapter including examples and a set of exercises this book is an ideal companion for all engineering courses and also for self study Based on the latest version of Excel Microsoft Excel for Microsoft 365 it is also compatible with earlier versions of Excel dating back to Version 2013 Including numerous case studies this book will be of interest to students and professionals working in all areas of engineering and science *E-Source* Kuncicky,1999-06 <u>Excel 4 for Scientists and Engineers</u> William J. Orvis,1993 A sourcebook of numerical methods implemented on the Excel spreadsheet Each example is explained in detail showing not only the numerical method but the step by step implementation of the method on a

spreadsheet All levels of numerical analysis are described from simple tabulations of functions statistics and curve fitting to solutions of differential equations in one and two dimensions These methods are applicable to both the Macintosh and Windows versions of Excel   The Canadian Engineer ... ,1927   **Engineering News** ,1905   Engineering Education ,1916

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