

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



Select Strength:	$f_y = 60000 \text{ psi}; f_c = 4000 \text{ psi}$	Select design $\rho$ :	$\rho_{max}$	Select Load Case:	$1.2D + 1.4L$
$f_y = 60000$	$F_y = 4000$	Design $\rho = 0.0069$		Est $w_s$ [k/ft] = 1.78	
$\rho_{max} = 0.0033$	$\rho_{max} = 0.0181$	Design $R_n = 388.79$		$M_u$ [ft-k] = 227.8	
$R_n$ of $\rho_{max}$ [psi] = 192.2	$R_n$ of $\rho_{max}$ [psi] = 952.0	$b_w d^3 = 7813.549$		$M_u$ [ft-k] = 253.2	
		$d = 22.10$		Density [pcf] 150	

Enter Givens & Estimates:

$w_s$ [k/ft]	0.55	$b_w$ [in]	14	$b_{web}$ [in]	80
$w_s$ [k/ft]	0.4	$h$ [in]	27	$t$ [in]	3
Length [ft]	32	$d$ [in]	24	$a$ [in]	0.49
Clear Cover [in]	3	$A_g$ [in <sup>2</sup> ]	2.65	$\beta_1$	0.85
Est Self Wt [pcf]	400	$A_{g,max}$ [in <sup>2</sup> ]	1.214	$c$ [in]	0.57
Actual Self Wt [pcf]	450.00	$A_{g,max}$ [in <sup>2</sup> ]	1.280	$e_t$	0.1227
		$\phi M_u$ [ft-k]	253.36		

Neutral Axis Calculations:

T [kips]	142.2	$z$ [in] =	21.60
$A_g$ [in <sup>2</sup> ]	41.8	$z$ [in] =	22.50
$A_{g,req}$ [in <sup>2</sup> ]	240	Governing $z$	22.50

N.A. is in the flange

Select  $A_s$  in Tension:

BAR	Qty	$A_s$ [in <sup>2</sup> ]
#8	3	2.37

If  $a < ht$

$A_s$ [in <sup>2</sup> ]	2.6496
--------------------------	--------

If $a > t$	
$A_{s,req}$ [in <sup>2</sup> ]	10.88
$M_{u,req}$ [k-ft]	1224.00
$M_{u,prov}$ [k-ft]	996.16
$R_n$	1441.20
$\rho_s = 0.03$	
$a$ [in]	14.64
$c$ [in]	17.22
$e_t$	0.00
$A_{s,req}$ [in <sup>2</sup> ]	13.27
$A_s$ [in <sup>2</sup> ]	24.15

Bar Selection:

BAR	Number of Bars in a Single Layer of Reinforcing													
	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	1.55	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	14.10	16.00	19.60	20.00	24.50	24.00	28.60	28.00	35.10	32.00	37.70

# Engineering Formulas Excel

**Michael Rajnik**



## **Engineering Formulas Excel:**

## Whispering the Secrets of Language: An Psychological Quest through **Engineering Formulas Excel**

In a digitally-driven world where displays reign great and immediate interaction drowns out the subtleties of language, the profound strategies and mental subtleties concealed within words usually go unheard. Yet, set within the pages of **Engineering Formulas Excel** a fascinating literary treasure pulsing with raw thoughts, lies an exceptional quest waiting to be undertaken. Penned by an experienced wordsmith, that wonderful opus encourages visitors on an introspective trip, lightly unraveling the veiled truths and profound influence resonating within the very fabric of each and every word. Within the mental depths with this touching review, we will embark upon a heartfelt exploration of the book's primary subjects, dissect its captivating writing style, and succumb to the strong resonance it evokes heavy within the recesses of readers' hearts.

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