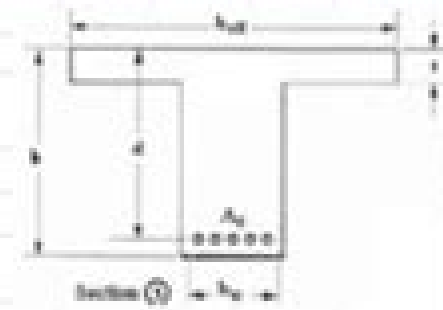


CONCRETE DESIGN CALCULATOR: Quiz-4 Solution Section (3)

Select Strength:	$f_y = 60000 \text{ psi}; f_c = 4000 \text{ psi}$	Select design ρ :	ρ_{max}	Select Load Case:	$1.2D + 1.4L$
$f_y = 60000$	$f_c = 4000$	Design $\rho = 0.0069$	Est w_s [k/ft] = 1.78		
$\rho_{max} = 0.0033$	$\rho_{max} = 0.0183$	Design $R_n = 388.79$	M_u [ft-k] = 227.8		
R_n at ρ_{max} [psi] = 192.2	R_n at ρ_{max} [psi] = 952.0	$b d^3 = 7813.549$	M_u [ft-k] = 253.2		
		$d = 22.10$	Density [pcf] 150		



Enter Givens & Estimates:

w_s [k/ft]	0.55	b_w [in]	16	b_{eff} [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 ²]	2.65	β_1	0.85
Est Self Wt [plf]	400	$A_{g,max}$ [in ²]	1.214	c [in]	0.57
Actual Self Wt [plf]	450.00	$A_{g,max}$ [in ²]	1.280	ϵ_t	0.1227
		ϕM_u [ft-k]	253.36		

Neutral Axis Calculations:

T [kips]	142.2	z [in] =	21.60
A_g [in ²]	41.8	z [in] =	22.50
$A_{s,req}$ [in ²]	240	Governing z	22.50

N.A. is in the flange

Select A_s in Tension:

BAR	Qty	A_s [in ²]
#6	3	2.37

If $a < ht$

A_s [in ²]	2.6496
--------------------------	--------

If $a > t$	
$A_{s,req}$ [in ²]	10.88
$M_{u,max}$ [k-ft]	1224.00
$M_{u,req}$ [k-ft]	996.16
R_n	1441.20
ρ_n	0.03
a [in]	14.64
c [in]	17.22
ϵ_t	0.00
$A_{s,req}$ [in ²]	13.27
A_s [in ²]	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	2.13	15.00	2.45	16.70
#6	0.88	7.00	1.32	8.80	1.77	10.50	2.21	12.50	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	24.50	24.00	28.60	28.00	35.10	32.00	37.70

Mechanical Engineering Calculations Xls

David Chadderton



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Building Services Engineering Spreadsheets David Chadderton, 2002-09-11 Building Services Engineering Spreadsheets is a versatile user friendly tool for design calculations Spreadsheet application software is readily understandable since each formula is readable in the location where it is used Each step in the development of these engineering solutions is fully explained The book provides study material in building services engineering and will be valuable both to the student and to the practising engineer It deals with spreadsheet use thermal transmittance building heat loss and heat gain combustion analysis fan selection air duct design water pipe sizing lumen lighting design electrical cable sizing at a suitable level for practical design work Commercially available software while very powerful and comprehensive does not allow the user any facility to look into the coded instructions The user has to rely upon the supplier for explanation updates and corrections The advantage that the spreadsheet applications provided with the book have over purchased dedicated software is that the user can inspect everything that the program undertakes Parts of the worksheets can be copied to other cells in order to expand the size of each worksheet Experienced spreadsheet operators can edit the cells to change the way in which data and calculations are used and with guidance from the explanatory build their own applications

Planning and Executing Credible Experiments Robert J. Moffat, Roy W. Henk, 2021-02-02 Covers experiment planning execution analysis and reporting This single source resource guides readers in planning and conducting credible experiments for engineering science industrial processes agriculture and business The text takes experimenters all the way through conducting a high impact experiment from initial conception through execution of the experiment to a defensible final report It prepares the reader to anticipate the choices faced during each stage Filled with real world examples from engineering science and industry Planning and Executing Credible Experiments A Guidebook for Engineering Science Industrial Processes Agriculture and Business offers chapters that challenge experimenters at each stage of planning and execution and emphasizes uncertainty analysis as a design tool in addition to its role for reporting results Tested over decades at Stanford University and internationally the text employs two powerful free open source software tools GOSSET to optimize experiment design and R for statistical computing and graphics A website accompanies the text providing additional resources and software downloads A comprehensive guide to experiment planning execution and analysis Leads from initial conception through the experiment s launch to final report Prepares the reader to anticipate the choices faced throughout an experiment Hones the motivating question Employs principles and techniques from Design of Experiments DoE Selects experiment designs to obtain the most information from fewer experimental runs Offers chapters that propose questions that an experimenter will need to ask and answer during each stage of planning and execution Demonstrates how uncertainty analysis guides and strengthens each stage Includes examples from real life industrial experiments Accompanied by a website hosting open source software Planning and Executing Credible Experiments is an excellent resource for graduates

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J. P. Holman, Blake K. Holman, 2006-06-09 With the many software packages available today it s easy to overlook the computational and graphics capabilities offered by Microsoft Excel™ The software is nearly ubiquitous and understanding its capabilities is an enormous benefit to engineers in almost any field and at all levels of experience What Every Engineer Should Know About Excel offers in nine self contained chapters a practical guide to the features and functions that can be used for example to solve equations and systems of equations build charts and graphs create line drawings and perform optimizations The author uses examples and screenshots to walk you through the steps and build a strong understanding of the material With this book you will learn how to Set up the keyboard for direct entry of most math and Greek symbols Build a default scatter graph that is applicable to most simple presentations with little cosmetic modification Apply many types of formats to adjust the cosmetics of graphs Use 3D surface and area charts for data and functional representations with associated cosmetic adjustments Correlate data with various types of functional relations Use line drawing tools to construct simple schematics or other diagrams Solve linear and nonlinear sets of equations using multiple methods Curve student grades using Excel probability functions Model device performance using different types of regression analysis involving multiple variables Manipulate Excel financial functions Calculate retirement accumulation with variable contribution rate and retirement payouts to match increases in inflation

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