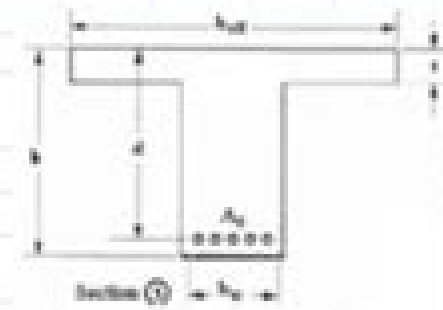


CONCRETE DESIGN CALCULATOR: Quiz-4 Solution Section (3)

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	e_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
e_t	0.00
$A_{s,max}$ [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	12.30	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	24.50	24.00	28.60	28.00	35.10	32.00	37.70

Engineering With Excel

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Engineering with Excel Ronald Larsen, 2017 Resource added for the Mechanical Design Technology program 106061

What Every Engineer Should Know About Excel J. P. Holman, Blake K. Holman, 2017-10-12 Understanding the powerful computational and graphics capabilities of Microsoft Excel is an enormous benefit to engineers and technical professionals in almost any field and at all levels of experience *What Every Engineer Should Know About Excel* is a practical guide to unlocking the features and functions of this program using examples and screenshots to walk readers through the steps to build a strong understanding of the material This second edition is updated to reflect the latest version of Excel 2016 and expands its scope to include data management connectivity to external data sources and integration with the cloud for optimal use of the Excel product It also introduces the ribbon bar navigation prevalent in Microsoft products beginning with the 2007 version of MS Office Covering a variety of topics in self contained chapters this handy guide will also prove useful for professionals in IT finance and real estate *What Every Engineer Should Know About Excel* J. P. 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 Apply Excel methods for optimization problems with both linear and nonlinear relations Use pivot tables to manipulate both experimental data and analytical relationships Calculate experimental uncertainties using Excel And much more [Excel Crash Course for Engineers](#) Eklas Hossain, 2021-03-31 *Excel Crash Course for Engineers* is a reader friendly introductory guide to the features functions and applications of Microsoft Excel in engineering The book provides readers with real world examples and exercises that are directly related to engineering and offers highly illustrated step by step demonstrations of techniques to solve and visualize engineering problems and situations The book includes an introduction to MS Excel along

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spreadsheet solutions for a variety of engineering problems The first three chapters introduce the basics of problem solving and Excel fundamentals Beyond that the chapters are largely independent of one another Topics covered include graphing data converting units analyzing data interpolation and curve fitting solving equations evaluating integrals writing macros and comparing economic alternatives *Microsoft Excel for Engineers* Delores M. Etter,1995-03 Now you can design a learning package that fits your introductory engineering course perfectly with The Engineer s Toolkit A First Course in Engineering The Engineer s Toolkit is Prentice Hall s innovative publishing program for introductory engineering Consisting of modules that cover engineering skills and concepts programming languages and software tools The Engineer s Toolkit is a flexible solution for keeping up with the evolving curriculum of first year engineering **Spreadsheet Tools for Engineers Using Excel** GOTTFRIED,2018-06-13 This practical text is a perfect fit for introductory engineering courses by successfully combining an introduction to Excel fundamentals with a clear presentation on how Excel can be used to solve common engineering problems Updated to ensure compatibility with Excel 2016 Spreadsheet Tools provides beginning engineering students with a strong foundation in problem solving using Excel as the modern day equivalent of the slide rule The book is intended primarily as a textbook for use in introductory engineering courses although it may also be of interest to more advanced students and many practicing engineers The author provides plenty of background information on technical terms and provides numerous examples illustrating both traditional and spreadsheet solutions for a variety of engineering problems The first three chapters introduce the basics of problem solving and Excel fundamentals Beyond that the chapters are largely independent of one another Topics covered include graphing data unit conversions data analysis interpolation and curve fitting solving equations evaluating integrals creating macros and comparing economic alternatives **Spreadsheet Tools for Engineers Using Excel** Byron S. Gottfried,2007 This best selling Spreadsheet book provides excellent coverage of all versions of Excel including the latest version Excel 2002 It discusses how to use Excel to solve a variety of problems in introductory engineering analysis such as graphing data unit conversions simple statistical analysis sorting searching and analyzing data curve fitting interpolation solving algebraic equations logical decisions evaluating integrals comparing economic alternatives and finding optimum solutions Numerous examples are included illustrating both traditional and spreadsheet solutions to a variety of problems The underlying mathematical solution procedures are also discussed so that the reader is provided with an understanding of what the spreadsheet does and how it does it Excel for Engineers and Scientists Sylvan Charles Bloch,2003 Using an informal conversational style this how to book guides beginning students from spreadsheet basics through the robust engineering and scientific applications of EXCEL including using EXCEL in the lab Students learn how to compose structured efficient documented workbooks with data entry cells summary results and statistics cells and commented cells Throughout the book they ll find innovative techniques for composing spreadsheets solving problems analyzing data and presenting results that will help them in their courses and professional careers End of

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Excel 2013 for Engineering Statistics Thomas J. Quirk, 2015-10-15 This is the first book to show the capabilities of Microsoft Excel to teach engineering statistics effectively It is a step by step exercise driven guide for students and practitioners who need to master Excel to solve practical engineering problems If understanding statistics isn t your strongest suit you are not especially mathematically inclined or if you are wary of computers this is the right book for you Excel a widely available computer program for students and managers is also an effective teaching and learning tool for quantitative analyses in engineering courses Its powerful computational ability and graphical functions make learning statistics much easier than in years past However Excel 2013 for Engineering Statistics A Guide to Solving Practical Problems is the first book to capitalize on these improvements by teaching students and managers how to apply Excel to statistical techniques necessary in their courses and work Each chapter explains statistical formulas and directs the reader to use Excel commands to solve specific easy to understand engineering problems Practice problems are provided at the end of each chapter with their solutions in an Appendix Separately there is a full Practice Test with answers in an Appendix that allows readers to test what they have learned

Liengme's Guide to Excel 2016 for Scientists and Engineers Bernard Liengme, Keith Hekman, 2019-08-14 Liengme s Guide to Excel 2016 for Scientists and Engineers is a completely updated guide for students scientists and engineers who want to use Microsoft Excel 2016 to its full potential whether you re using a PC or a Mac Electronic spreadsheet analysis has become part of the everyday work of researchers in all areas of engineering and science Microsoft Excel as the industry standard spreadsheet has a range of scientific functions that can be utilized for the modeling analysis and presentation of quantitative data This text provides a straightforward guide to using these functions of Microsoft Excel guiding the reader from basic principles through to more complicated areas such as formulae charts curve fitting equation solving integration macros statistical functions and presenting quantitative data Content written specifically for the requirements of science and engineering students and professionals working with Microsoft Excel brought fully up to date with Microsoft Office release of Excel 2016 Features of Excel 2016 are illustrated through a wide variety of examples based on technical contexts demonstrating the use of the program for analysis and presentation of experimental results Where appropriate demonstrates the differences between the PC and Mac versions of Excel Includes many new end of chapter problems at varying levels of difficulty

Excel 2016 for Engineering Statistics Thomas J. Quirk, 2016-07-19 This book shows the capabilities of Microsoft Excel in teaching engineering statistics effectively Similar to the previously published Excel 2013 for Engineering Statistics this book is a step by step exercise driven guide for students and practitioners who need to master Excel to solve practical engineering problems If understanding statistics isn t your strongest suit you are not especially mathematically inclined or if you are wary of computers this is the right book for you

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Engineering Computation Musto,Howard,Williams,2008-12-16 *Excel for Scientists and Engineers* E. Joseph Billo,2007-03-16 Learn to fully harness the power of Microsoft Excel to perform scientific and engineering calculations With this text as your guide you can significantly enhance Microsoft Excel s capabilities to execute the calculations needed to solve a variety of chemical biochemical physical engineering biological and medicinal problems The text begins with two chapters that introduce you to Excel s Visual Basic for Applications VBA programming language which allows you to expand Excel s capabilities although you can still use the text without learning VBA Following the author s step by step instructions here are just a few of the calculations you learn to perform Use worksheet functions to work with matrices Find roots of equations and solve systems of simultaneous equations Solve ordinary differential equations and partial differential equations Perform linear and non linear regression Use random numbers and the Monte Carlo method This text is loaded with examples ranging from very basic to highly sophisticated solutions More than 100 end of chapter problems help you test and put your knowledge to practice solving real world problems Answers and explanatory notes for most of the problems are provided in an appendix The CD ROM that accompanies this text provides several useful features All the spreadsheets charts and VBA code needed to perform the examples from the text Solutions to most of the end of chapter problems An add in workbook with more than twenty custom functions This text does not require any background in programming so it is suitable for both undergraduate and graduate courses Moreover practitioners in science and engineering will find that this guide saves hours of time by enabling them to perform most of their calculations with one familiar spreadsheet package

Loose Leaf for Spreadsheet Tools for Engineers Using Excel Byron S. Gottfried,2018-02-14 This practical text is a perfect fit for introductory engineering courses by successfully combining an introduction to Excel fundamentals with a clear presentation on how Excel can be used to solve common engineering problems Updated to ensure compatibility with Excel 2016 Spreadsheet Tools provides beginning engineering students with a strong foundation in problem solving using Excel as the modern day equivalent of the slide rule The book is intended primarily as a textbook for use in introductory engineering courses although it may also be of interest to more advanced students and many practicing engineers The author provides plenty of background information on technical

terms and provides numerous examples illustrating both traditional and spreadsheet solutions for a variety of engineering problems. The first three chapters introduce the basics of problem solving and Excel fundamentals. Beyond that, the chapters are largely independent of one another. Topics covered include graphing data, unit conversions, data analysis, interpolation, and curve fitting, solving equations, evaluating integrals, creating macros, and comparing economic alternatives. **Engineering Computations** Joseph C. Musto, William E. Howard, Richard R. Williams, 2009-01-01. The strength of Engineering Computation is its combination of the two most important computational programs in the engineering marketplace today: MATLAB and Excel. Engineering students will need to know how to use both programs to solve problems. The focus of this text is on the fundamentals of engineering computing: algorithm development, selection of appropriate tools, documentation of solutions, and verification and interpretation of results. To enhance instruction, the companion website includes a detailed set of PowerPoint slides that illustrate important points, reinforcing them for students and making class preparation easier.

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