

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

Enter Givens & Estimates:

$w_s [k/ft]$	0.55	$b_w [in]$	14	$b_{eff} [in]$	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 [pcf]	400	$A_{g,max} [in^2]$	1.214	$c [in]$	0.57
Actual Self Wt [pcf]	450.00	$A_{g,max} [in^2]$	1.280	e_1	0.1227
		$\phi M_u [ft-k]$	253.36		

Neutral Axis Calculations:

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

N.A. is in the flange

Select A_s in Tension:

BAR	Qty	$A_s [in^2]$
#8	3	2.37

If $a < ht$

$A_s [in^2]$	2.6496
--------------	--------

If $a > t$	
$A_{g,r} [in^2]$	10.88
$M_{u,r} [k-ft]$	1224.00
$M_{u,r} [k-ft]$	996.16
R_n	1441.20
$\rho_s =$	0.03
$a [in]$	14.64
$c [in]$	17.22
e_1	0.00
$A_{g,r} [in^2]$	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	2.15	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	28.80	28.00	35.10	32.00	37.70

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GOTTFRIED



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Engineering Calculations Using Microsoft Excel Primož Kvaternik,2014-06-22 As every Engineer needs to do many daily calculations especially using modern standards like EUROCODES the need to write custom software solutions is more and more real Especially if standards include many complex formulas which are hardly calculated using pocket computers as it was 30 years ago Then it came programmable pocket computers I clearly remember as I had SHARP programmable computer where it was possible to write a complex software but you couldn't print the results as it is possible now So today it is possible just by using Microsoft Excel and its programming abilities to write real software which can solve all daily engineering calculations with ease What does an engineer need So what does an engineer need when creating calculations First there are input parameters which should be entered on a very simple and a quick way then a simple sketch as a graphical representation of the basis of calculation with annotations of input parameters After that engineer needs to define the mathematical procedure which could be very simple but it should also enable him to write also more complex formulas or iterations This is very easy to do with Excel In this book I will show you that you do not need to be a software developer to create your own customized engineering calculations in minutes What is maybe the most important you can update formulas in your calculation any time you want This is the solution that every engineer needs because it offers open source solution with powerful programmable tools but on the other side simple enough to be done instantly We will learn the following topics How to create cells where input parameters should be entered How to create a sketch with annotations of input parameters How to prepare cells where results of calculation will be written How to create a push button where you will trigger start of the calculation How to write code to perform calculation How to write code to display the results of calculation How to perform calculation This book will also show you how to write the software for practical engineering calculation for structural analysis I will show you in detail how to enter data define formulas and actually perform calculation including how to display results and format cells for results of calculation I will provide you with an easy to follow material explanation all steps including source code will be explained in detail *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

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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

An Introduction to Excel for Civil Engineers Gunthar Pangaribuan, 2016-07-09 It's a Excel basics book that every civil engineer should have read by now It addresses skills that may not be covered in most Excel for civil engineering texts such as step by step guides to create an application program and how to convert the steps into VBA code how to perform matrix operations multiplication and inversion using Excel VBA macro for creating an engineering chart a brief and simple guide to become an instant Excel VBA

programmer and more Also to be presented the depiction in AutoCAD program Yes AutoCAD is chosen because one of its advantages that relies on high drawing accuracy You will learn how to create a simple AutoCAD script file using Excel formulas and Excel VBA It is expected that you will be able to create simple Cartesian graph in AutoCAD even you are an AutoCAD first time user This book contains the author s collection of custom functions and also a series of engineering calculation programming that are very useful to adopt With the ease of working with Excel coupled with benefit of the given examples in this book it is expected to increase the interest of the reader to create new original application programs Thus each model or even a specific calculation will be an exciting challenge for a programming job is already enjoyable Happy Excel programming

Spreadsheet Tools for Engineers Byron S. Gottfried,1998 Spreadsheet Tools for Engineers Excel 97 Version explains how to use the latest version of Microsoft s popular spreadsheet package Excel to solve simple problems that commonly arise in engineering analysis It is intended as a supplementary textbook for use in introductory engineering courses although it will also be of interest to more advanced students and to practicing engineers This new edition has been rewritten for Excel 97 the version of Excel included in Microsoft s Office 97 suite It includes separate chapters on Excel fundamentals graphing data analyzing data using simple statistics fitting equations to data interpolating between data points solving single algebraic equations solving simultaneous algebraic equations evaluating integrals comparing alternatives using engineering economic analysis finding optimum solutions and sorting and retrieving data The book contains many detailed examples supplemented by a large number of problems for student solution Answers are provided for most problems Book jacket

The Excel Spreadsheet for Engineers and Scientists Irvin H. Kral,1992 A complete tutorial on how to use all version of the excel spreadsheets including 3 0 for specific engineering and scientific functions *Spreadsheet Tools for Engineers Using Excel* © 2007 Byron S. Gottfried,2009-01-22 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 2007 Spreadsheet Tools for Engineers Using Excel 2007 provides beginning engineering students with a strong foundation in problem solving using Excel as the modern day equivalent of the slide rule As part of McGraw Hill s BEST series for freshman engineering curricula this text is particularly geared toward introductory students 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

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

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

The Engineer's Tables Dr. Robert Mote, 2009-03-30 About the Book Calculations are the bedrock of the worldwide engineering profession Unfortunately engineers often struggle to translate their engineering designs into coherent spreadsheets Preparing calculations is becoming a considerable issue in engineering project activities worldwide For most engineers Microsoft Excel is a style choice This book introduces Microsoft Excel to the practicing professional engineer and show how Microsoft Excel can become the extended calculator of choice for engineers everywhere The techniques in this book are invaluable for any engineer looking for a professional and visual layout without having to become an expert in Microsoft Excel Only ten percent of the power of Microsoft Excel is required to unleash the full potential for effective spreadsheets This book looks at the psychology of the engineering mind today in the computer age Over a relatively short period specifically ten to fifteen years computers have transformed the engineering profession the marketplace the project execution in the drawing office and field and permitted bad habits to continue unchecked The book demonstrates the technique through a series of eight modules Each module takes you through engineering spreadsheet examples using only common commands based on Microsoft Excel 2003 It is the second in the Mote Method series which is designed to encourage the engineer to improve his or her PC proficiency in order to pursue engineering excellence Thus the limitations of engineering tools commonly used will be surpassed The commercial and professional benefits of applying these

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Excel for Scientists and Engineers William J. Orvis,1996 Excel for Scientists and Engineers is an essential sourcebook for implementing advanced numerical methods supplied in Excel for Windows 95 and Excel 5 for Windows 3 1 and Mac Use Excel to perform all levels of numerical analysis Each detailed example explains the numerical method used and how to implement it in Excel You ll learn to prepare single input and multi input engineering tables and create function calculators for painless what if analysis use Excel s built in curve fitting functions from linear curve fitting to linear regression polynomial regression and non linear curve fitting employ popular integration functions including the rectangle rule the trapezoid rule Simpson s rule and Gaussian quadratures use Excel s new distribution and statistical functions plus Bessel error and delta functions solve ordinary differential equations and partial differential equations by combining Excel s features in new ways and create your own functions with Visual Basic for Applications

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 with in depth coverage of graphing and charting functions and formulae Excel s Visual Basic for Applications VBA programming language and engineering data analysis This powerful tutorial is a great resource for students engineers and other busy technical professionals who need to quickly acquire a solid understanding of Excel

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renew [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

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web we utilize the equation that relate amount remaining initial mass and number of half lives $n = \frac{t}{T} \times n_0$ 1 2 4 x 50 3 125 g 5 what is the half life of an isotope that is 80 remained after 16 days solution remaining 80 100 therefore $n = \frac{t}{T} \times n_0$ 100 now using the half life equation in example 1 we have

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web solution if we compare the time that has passed to the isotope s half life we note that 44 0 s is exactly 4 half lives so using the previous equation n 4 substituting and solving results in the following less than one third of a gram of 20 f remains skill building exercise the half life of 44 ti is 60 0 y

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