

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	$b_{web} [in]$	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	$A_g [in^2]$	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 $a > t$	
$A_{g,req} [in^2]$	10.88
$M_{u,max} [k-ft]$	1224.00
$M_{u,req} [k-ft]$	996.16
R_n	1441.20
$\rho_s =$	0.03
$a [in]$	14.64
$c [in]$	17.22
e_1	0.00
$A_{g,req} [in^2]$	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	2.15	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	33.10	32.00	37.70

Engineering Formulas Excel

**J.P. Mohsen, Mohamed Y. Ismail, Hamid
R. Parsaei, Waldemar Karwowski**

Engineering Formulas Excel:

Engineering Calculations Using Microsoft Excel Primož Kvaternik, 2014 *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, 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 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 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 **A Guide to Microsoft Excel for Scientists and Engineers** Bernard V. Liengme,2000 This work gives scientific and engineering students an introduction to the use of excel for the analysis and presentation of experimental results It also discusses some of the more advanced functions such as modelling **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, Second Edition J. P. Holman, Blake K. Holman, 2017-10-30 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

Numerical Calculations for Process Engineering Using Excel VBA Chi M. Phan, 2023-12-01 Numerical Calculations for Process Engineering Using Excel VBA provides numerical treatment of process engineering problems with VBA programming and Excel spreadsheets The problems are solving material and energy balances optimising reactors and modelling multiple factor processes The book includes both basic and advanced codes for numerical calculations The basic methods are presented in different variations tailored to particular applications Some macros are combined with each other to solve engineering problems Examples include combining the bisection method and binary search to optimise an implicit correlation combining golden section search with Euler s method to optimise a reactor and combining bisection code and Euler s method to solve steady state heat distribution The text also includes nonconventional examples such as harmony search and network analysis The examples include solutions to common engineering problems such as adiabatic flame temperature plug flow reactor conversion batch reactor heat diffusion and pinch analysis of heat exchanger networks The VBA code is presented with mathematical equations and flowcharts enabling the audience to adopt the solutions to different problems The book contains many demonstrations of numerical techniques to guide users It also includes useful summaries of VBA commands functions and Excel predefined functions accessible in VBA While the book is developed primarily for undergraduate students the book is a helpful resource for postgraduate students

and engineers 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 *Using Microsoft Office XP* Ed Bott,Woody Leonhard,2001 With this edition of Special Edition Using Office XP there is a continual emphasis on realistic applications and uses of the program features While there are many other big books in the Office market today there are few that tailor coverage uniquely for the intermediate to advanced Office user as Special Edition Using does delivering more focused value for the customer It has been updated to reflect Office XP s Smart tags collaboration features speech and dictation tools built in recovery features add network place wizard and much more

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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

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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 Excel 4 for Scientists and Engineers 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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