

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 $R_u = 388.79$		$M_u [ft-k] = 227.8$	
$R_u \text{ of } \rho_{max} [psi] = 192.2$	$R_u \text{ of } \rho_{max} [psi] = 952.0$	$b_w d^3 = 7813.549$		$M_u [ft-k] = 253.2$	
		$d = 22.10$		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
$R_{u,r}$	1441.20
$\rho_u =$	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	33.10	32.00	37.70

Engineering Formulas Excel

Ed Bott, Woody Leonhard



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

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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

Special Edition Using Microsoft Office 2007 Ed Bott, Woody Leonhard, 2006-12-22 Special Edition Using Microsoft Office 2007 THE ONLY OFFICE BOOK YOU NEED We crafted this book to grow with you providing the reference material you need as you move toward Office proficiency and use of more advanced features If you buy only one book on Office 2007 Special Edition Using Microsoft Office 2007 is the only book you need If you own a copy of Office 2007 you deserve a copy of this book Although this book is aimed at the Office veteran Ed and Woody s engaging style will appeal to beginners too Written in clear plain English readers will feel as though they are learning from real humans and not Microsoft clones Sprinkled with a wry sense of humor and an amazing depth of field this book most certainly isn t your run of the mill computer book You should expect plenty of hands on guidance and deep but accessible reference material This isn t your Dad s Office For the first time in a decade Microsoft has rolled out an all new user interface Menus Gone Toolbars Gone For the core programs in the Office family you now interact with the program using the Ribbon an oversize strip of icons and commands organized into multiple tabs that takes over the top of each program s interface If your muscles have memorized Office menus you ll have to unlearn a lot of old habits for this version

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 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 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 **E-Source** Kuncicky, 1999-06 *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 *Canadian Engineer*, 1923 **The Canadian Engineer ...**, 1927 **Indian Engineering**, 1922 *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

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Table of Contents Engineering Formulas Excel

1. Understanding the eBook Engineering Formulas Excel
 - The Rise of Digital Reading Engineering Formulas Excel
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Formulas Excel
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Engineering Formulas Excel
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Formulas Excel
 - Personalized Recommendations
 - Engineering Formulas Excel User Reviews and Ratings
 - Engineering Formulas Excel and Bestseller Lists
5. Accessing Engineering Formulas Excel Free and Paid eBooks

- Engineering Formulas Excel Public Domain eBooks
 - Engineering Formulas Excel eBook Subscription Services
 - Engineering Formulas Excel Budget-Friendly Options
6. Navigating Engineering Formulas Excel eBook Formats
 - ePub, PDF, MOBI, and More
 - Engineering Formulas Excel Compatibility with Devices
 - Engineering Formulas Excel Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Formulas Excel
 - Highlighting and Note-Taking Engineering Formulas Excel
 - Interactive Elements Engineering Formulas Excel
 8. Staying Engaged with Engineering Formulas Excel
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Formulas Excel
 9. Balancing eBooks and Physical Books Engineering Formulas Excel
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Formulas Excel
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Engineering Formulas Excel
 - Setting Reading Goals Engineering Formulas Excel
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Engineering Formulas Excel
 - Fact-Checking eBook Content of Engineering Formulas Excel
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

-
- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web the tricky part is to multiple by 14 avogadro s number is formally defined as the number of particles in 1 mole of substance do note that particles can refer to molecules ions or atoms no of molecules 25 58 mole x 6 10 23 molecules mole no of atoms 25 58 6 10 23 molecules x number of atoms in c4h10 14atoms 3 621 10 24

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web the mole is an amount unit similar to familiar units like pair dozen gross etc it provides a specific measure of the number of atoms or molecules in a bulk sample of matter a mole is defined as the amount of substance containing the same number of discrete entities atoms molecules ions etc as the number of atoms in a sample of pure

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