

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



Select Strength:	$f_y = 60000 \text{ psi}; f_c = 4000 \text{ psi}$	Select design $\rho$ :	$\rho_{max}$	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	$\beta_1$	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
$M_{u,req} [k-ft]$	1224.00
$M_{u,prov} [k-ft]$	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	35.10	32.00	37.70

# Engineering Calculations Using Microsoft Excel Skp

**IM Harris**



## **Engineering Calculations Using Microsoft Excel Skp:**

*Engineering Calculations Using Microsoft Excel* Primož Kvaternik, 2014 **PC Mag**, 2005-05-24 PCMag.com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology [PC Magazine](#), 2005-05

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**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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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

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on applications and is intended to serve as both a textbook and a reference for students

**An Introduction to Excel for Civil Engineers** Gunthar Pangaribuan, 2020-03-28 It is 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 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 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 The exercise files can be downloaded freely from the Author's blog

*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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### **Table of Contents Engineering Calculations Using Microsoft Excel Skp**

1. Understanding the eBook Engineering Calculations Using Microsoft Excel Skp
  - The Rise of Digital Reading Engineering Calculations Using Microsoft Excel Skp
  - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Calculations Using Microsoft Excel Skp
  - 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 Calculations Using Microsoft Excel Skp
  - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Calculations Using Microsoft Excel Skp
  - Personalized Recommendations

- Engineering Calculations Using Microsoft Excel Skp User Reviews and Ratings
- Engineering Calculations Using Microsoft Excel Skp and Bestseller Lists
- 5. Accessing Engineering Calculations Using Microsoft Excel Skp Free and Paid eBooks
  - Engineering Calculations Using Microsoft Excel Skp Public Domain eBooks
  - Engineering Calculations Using Microsoft Excel Skp eBook Subscription Services
  - Engineering Calculations Using Microsoft Excel Skp Budget-Friendly Options
- 6. Navigating Engineering Calculations Using Microsoft Excel Skp eBook Formats
  - ePub, PDF, MOBI, and More
  - Engineering Calculations Using Microsoft Excel Skp Compatibility with Devices
  - Engineering Calculations Using Microsoft Excel Skp Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Engineering Calculations Using Microsoft Excel Skp
  - Highlighting and Note-Taking Engineering Calculations Using Microsoft Excel Skp
  - Interactive Elements Engineering Calculations Using Microsoft Excel Skp
- 8. Staying Engaged with Engineering Calculations Using Microsoft Excel Skp
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Engineering Calculations Using Microsoft Excel Skp
- 9. Balancing eBooks and Physical Books Engineering Calculations Using Microsoft Excel Skp
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Engineering Calculations Using Microsoft Excel Skp
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Engineering Calculations Using Microsoft Excel Skp
  - Setting Reading Goals Engineering Calculations Using Microsoft Excel Skp
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Engineering Calculations Using Microsoft Excel Skp
  - Fact-Checking eBook Content of Engineering Calculations Using Microsoft Excel Skp

- 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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