

	A	B	C	D	E	F	G	H	I	J	K
1		The design of a pier using Direct displacement-based design									
2											
3		<b>Design limits</b>									
4		$\theta_d$	1.50%		Design drift limit						
5		$\Delta_d$	0.1 m		Design displacement						
6		<b>Yield level</b>									
7		$\epsilon_y$	0.0015		Ref: DOBD book, Priestley (2007)						
8		$\phi_y$	0.00242308 m-1								
9		$\Delta_y$	0.05169231 m		Yield displacement						
10											
11		$\mu$	3.80904762		Displacement ductility						
12		$\xi$	13.48%		Equivalent $\xi$ Ref: DO						
13											
14		<b>Spectrum factors</b>									
15		$r$	0.63281484		Displacement reduction factor						
16		$C_{s,c}$	0.71		Corner Spectrum Acc. Factor						
17		$A_{s,c}$	2.0874								
18		$D_{s,c}$	0.47587054		Corner Spectrum displacement						
19		$T_{s,c}$	3		Corner Spectrum period						
20		$T_{eff}$	1.99244408 s		Effective period						
21		<b>Design loads</b>									
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$$\Delta_y = \frac{\phi_y \cdot H^2}{3}$$

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# Microsoft Excel For Engineers

**Gunthar Pangaribuan**



## Microsoft Excel For Engineers:

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**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

**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

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**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

*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 Chapter problems not only show how to use EXCEL they also relate directly to topics in engineering and the sciences Plus a CD which is packaged with the text contains sample workbooks links to online EXCEL resources and text updates via the book s web site

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**Foundations of Excel Spreadsheets for Engineers and Scientists** Patrick John Jordan,2011-09-30 Excel is an everyday computational tool for most engineers and scientists Foundations of Excel Spreadsheets for Engineers and Scientists is specifically written to respond to gaps in understanding of this important spreadsheet tool among undergraduates and provide them with a concise informative and cost effective resource that will assist them with their study and careers Foundations of Excel Spreadsheets introduces the core aspects of Microsoft Excel addresses the range of skills required by undergraduate students using this technology across various disciplines including science engineering and technology covers additional key topics such as documentation and verification which are ignored by other textbooks refers to Excel 2010 but has application to earlier Excel versions as well Supplements Additional online guides to using keyboard shortcuts and translating commands between different Excel versions are available to users of the text at [www.pearsoned.co.nz/jordan](http://www.pearsoned.co.nz/jordan) **Statistics and Data Analysis for Engineers and Scientists** Tanvir Mustafy,Md. Tauhid Ur

Rahman,2024-01-10 This textbook summarizes the different statistical scientific and financial data analysis methods for users ranging from a high school level to a professional level It aims to combine the data analysis methods using three different programs Microsoft Excel SPSS and MATLAB The book combining the different data analysis tools is a unique approach The book presents a variety of real life problems in data analysis and machine learning delivering the best solution Analysis methods presented in this book include but are not limited to performing various algebraic and trigonometric operations regression modeling and correlation as well as plotting graphs and charts to represent the results Fundamental concepts of applied statistics are also explained here with illustrative examples Thus this book presents a pioneering solution to help a wide range of students researchers and professionals learn data processing interpret different findings derived from the analyses and apply them to their research or professional fields The book also includes worked examples of practical problems The primary focus behind designing these examples is understanding the concepts of data analysis and how it can solve problems The chapters include practice exercises to assist users in enhancing their skills to execute statistical analysis calculations using software instead of relying on tables for probabilities and percentiles in the present world 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 **Applied Statistics for Engineers and Scientists** ,2001 *Spreadsheet Tools for Engineers Using Excel* Byron S. Gottfried,2003 **Engineering Data Analysis with MATLAB®** Tanvir Mustafy,Tauhid Rahman,Nafisa Siddiqui,2024-12-30 This book provides a concise overview of a variety of techniques for analyzing statistical scientific and financial data using MATLAB to integrate several approaches to data analysis and statistics The chapters offer a broad review of computational data analysis illustrated with many examples and applications Topics range from the basics of data and statistical analysis to more advanced subjects such as probability distributions descriptive and inferential statistics parametric and non parametric tests correlation and regression analysis Each chapter combines theoretical

concepts with practical MATLAB applications and includes practice exercises ensuring a comprehensive understanding of the material. With coverage of both basic and more complex ideas in applied statistics, the book has broad appeal for undergraduate students up to practicing engineers. [Selected Chapters from Spreadsheet Tools for Engineers: Using Excel](#)  
Byron S. Gottfried, 2007-01-01     *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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