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Civil Engineering Spreadsheet Software Downloads - CESDb

This website provides an insight on how Excel software can be effectively utilised in a wide range of engineering applications. Engineering students typically use software like MATLAB or MATHEMATICA during their tertiary studies, and though in industry most engineers have access to Excel, utilization is generally limited to crunching out numbers and data storage.

Engineers-Excel.com: For Engineers who Excel

When you write functions and subroutines in VBA (Visual Basic for Applications), you 'll probably take advantage of

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some of the built-in worksheet functions of Excel itself. VBA has some functions of its own, but to get the most functionality in VBA, you ' ll need to use worksheet functions. In this post, you ' ll see how to use worksheet functions within VBA. An example worksheet has been set up for you to create your own sine and inverse sine functions using VBA. You can start by ...

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Engineers also help protect the safety and health of people in buildings, promote cost-effective construction and resolve environmental and energy issues. There are four classes of engineer in which you can apply to register: Civil engineer; Mechanical engineer; Electrical engineer; Fire safety engineer. Eligibility

Engineer | Victorian Building Authority

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I thought that the interaction between Excel and AutoCAD using VBA might be useful for all types of engineers who using AutoCAD (primarily civil and surveying engineers), so I decided to post the VBA code that I wrote here.

Draw A Polyline In AutoCAD Using Excel VBA - My ...
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Excel and Visual Basic for Applications (VBA) Create Structured Spreadsheet Designs Develop VBA Functions and Sub Procedures

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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. Happy Excel programming!

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

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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).

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"Provides a cost-effective alternative to Finite Element software tools for soil and structural analysis. Giving readers the tools to understand and analyse common problems in structural engineering, foundation engineering and soil-structure interaction, this book is accompanied by Excel Spreadsheets and employs the Visual Basic for Applications (VBA) macro programming language to allow a practical understanding. The book demystifies complex soil and structure applications using simple modelling techniques to present the essentials in a clear and concise way. It also shows the theory behind the programming of the finite element method, and how analysis using Excel spreadsheets and VBA macros can be used to test underlying assumptions

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of FEM tools. By providing an expert system and guidance to the reader in its use through examples, the text shows how an analysis of any structure or soil-structure system, regardless of complexity, can be conducted. It explains the operations being performed by all the computer programs in a general manner, and any limitations, simplifying assumptions, or approximations inherent in the method. The book also addresses some of the common problems and misunderstandings in the theory and practice of geo-engineering by providing tools to calculate deformations; implement soil-structure interaction procedures for many problems; provide reality checks on more complicated procedures; and enable proper implementation of soil and rock properties in analyses. A hands-on reference enabling

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readers to efficiently solve problems in the analysis of geotechnical and structural systems using Excel and VBA macros Uniquely utilises Excel spreadsheets and programming tools to solve practical problems in soil-structure interaction in a cost-effective way Both a self-study guide and a reference, with extensive question and answer sections within chapters, to enable hands-on learning Includes an Appendix with solutions to practical civil engineering applications Companion website features Matlab coding, Excel spreadsheets and VBA macros "--

Microsoft Excel is a spreadsheet program that is widely used for calculations. It is easy to operate and giving "complete" results by showing rows and columns sheet, images, text,

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tables, charts, and so on. One of the strong points of Excel is its MACRO capability to shorten and simplify the repetitive works using Visual Basic Application (VBA) programming language. At the next level macro can be developed to make useful application, such as structural analysis. In general, in this book you will learn: 1. Advancing Excel skills to a higher level by practicing VBA. The main goal is getting used to VBA macro and be able to enjoy it. 2. Using VBA to create user-defined functions. Introducing LINEAR interpolation function that is one the MOST USEFUL function in civil engineering, alongside LOG and 3rd degree POLYNOMIAL interpolation function presented in this book. 3. Using VBA to automate Excel graph. It is GREAT TIME-SAVER for creating line graphs. 4. Using Excel for civil engineering applications, such

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as truss and frame analysis using matrix method. 5. The fastest way to create line graph in AutoCAD by automating the process with Excel. This book includes exercise files and VBA code examples that can be freely downloaded from the link inside.

Learn to fully harness the power of Microsoft Excel(r) to perform scientific and engineering calculations With this text as your guide, you can significantly enhance Microsoft Excel's(r) 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

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allows you to expand Excel's(r) 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

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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.

Maximize your Excel experience with VBA Excel 2019 Power Programming with VBA is fully updated to cover all the latest tools and tricks of Excel 2019. Encompassing an analysis of

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Excel application development and a complete introduction to Visual Basic for Applications (VBA), this comprehensive book presents all of the techniques you need to develop both large and small Excel applications. Over 800 pages of tips, tricks, and best practices shed light on key topics, such as the Excel interface, file formats, enhanced interactivity with other Office applications, and improved collaboration features. Understanding how to leverage VBA to improve your Excel programming skills can enhance the quality of deliverables that you produce—and can help you take your career to the next level. Explore fully updated content that offers comprehensive coverage through over 900 pages of tips, tricks, and techniques Leverage templates and worksheets that put your new knowledge in action, and

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reinforce the skills introduced in the text Improve your capabilities regarding Excel programming with VBA, unlocking more of your potential in the office Excel 2019 Power Programming with VBA is a fundamental resource for intermediate to advanced users who want to polish their skills regarding spreadsheet applications using VBA.

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

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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

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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

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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.

All the methods and tools you need to successfully program with Excel John Walkenbach's name is synonymous with excellence in computer books that decipher complex technical topics. With this comprehensive guide, "Mr. Spreadsheet" shows you how to maximize your Excel

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experience using professional spreadsheet application development tips from his own personal bookshelf. Featuring a complete introduction to Visual Basic for Applications and fully updated for the new features of Excel 2010, this essential reference includes an analysis of Excel application development and is packed with procedures, tips, and ideas for expanding Excel ' s capabilities with VBA. Offers an analysis of Excel application development and a complete introduction to Visual Basic for Applications (VBA) Features invaluable advice from "Mr. Spreadsheet" himself (bestselling author John Walkenbach), who demonstrates all the techniques you need to create large and small Excel applications Provides tips, tricks, and techniques for expanding Excel's capabilities with VBA that you won ' t find

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anywhere else This power-user's guide is packed with procedures, tips, and ideas for expanding Excel's capabilities with VBA.

Master VBA automation quickly and easily to get more out of Excel Excel VBA 24-Hour Trainer, 2nd Edition is the quick-start guide to getting more out of Excel, using Visual Basic for Applications. This unique book/video package has been updated with fifteen new advanced video lessons, providing a total of eleven hours of video training and 45 total lessons to teach you the basics and beyond. This self-paced tutorial explains Excel VBA from the ground up, demonstrating with each advancing lesson how you can increase your productivity. Clear, concise, step-by-step instructions are

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combined with illustrations, code examples, and downloadable workbooks to give you a practical, in-depth learning experience and results that apply to real-world scenarios. This is your comprehensive guide to becoming a true Excel power user, with multimedia instruction and plenty of hands-on practice. Program Excel's newest chart and pivot table object models Manipulate the user interface to customize the look and feel of a project Utilize message boxes, input boxes, and loops to yield customized logical results Interact with and manipulate Word, Access, PowerPoint, and Outlook from Excel If you're ready to get more out of this incredibly functional program, Excel VBA 24-Hour Trainer, 2nd Edition provides the expert instruction and fast, hands-on learning you need.

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Maximize your Excel experience with VBA Excel 2016 Power Programming with VBA is fully updated to cover all the latest tools and tricks of Excel 2016. Encompassing an analysis of Excel application development and a complete introduction to Visual Basic for Applications (VBA), this comprehensive book presents all of the techniques you need to develop both large and small Excel applications. Over 800 pages of tips, tricks, and best practices shed light on key topics, such as the Excel interface, file formats, enhanced interactivity with other Office applications, and improved collaboration features. In addition to the procedures, tips, and ideas that will expand your capabilities, this resource provides you with access to over 100 online example Excel workbooks and the

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Power Utility Pak, found on the Mr. Spreadsheet website. Understanding how to leverage VBA to improve your Excel programming skills can enhance the quality of deliverables that you produce—and can help you take your career to the next level. Explore fully updated content that offers comprehensive coverage through over 900 pages of tips, tricks, and techniques Leverage templates and worksheets that put your new knowledge in action, and reinforce the skills introduced in the text Access online resources, including the Power Utility Pak, that supplement the content Improve your capabilities regarding Excel programming with VBA, unlocking more of your potential in the office Excel 2016 Power Programming with VBA is a fundamental resource for intermediate to advanced users who want to

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