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Excel scientific and engineering cookbook. Bourg, David M. Intended for those in the science and engineering community who want to improve upon their Excel skills, this book shows how to leverage Excel to perform both routine and complex calculations, and then visualize the results for presentation.

Excel scientific and engineering cookbook by Bourg, David M

The book shows how to perform these useful tasks and others: Use Excel and VBA in general Import data from a variety of sources Analyze data Perform calculations Visualize the results for interpretation and presentation Use Excel to solve specific science and engineering problems Wherever possible, the Excel Scientific and Engineering Cookbook draws on real-world examples from a range of scientific disciplines such as biology, chemistry, and physics.

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Chapter 1. Using Excel Introduction This chapter is

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necessarily basic and is intended for readers new to Excel or with little Excel experience. Experienced users may skip this chapter without ... - Selection from Excel Scientific and Engineering Cookbook [Book]

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Now the Excel Scientific and Engineering Cookbook shows you how to leverage Excel to perform more complex calculations, too, calculations that once fell in the domain of specialized tools. It does so by putting a smorgasbord of data analysis techniques right at your fingertips. The book shows how to perform these useful tasks and others:

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Given the improved analytical capabilities of Excel, scientists and engineers everywhere are using it--instead of FORTRAN--to solve problems. And why not? Excel is installed on millions of computers, features a rich set of built-in analyses tools, and includes an integrated Visual Basic for Applications (VBA) programming language. No wonder it's today's computing tool of choice. Chances are you already use Excel to perform some fairly routine calculations. Now the Excel Scientific and Engineering Cookbook shows you how to leverage Excel to perform more complex calculations, too, calculations that once fell in the domain of specialized tools. It does so by putting a smorgasbord of data analysis techniques right at your fingertips. The book shows how to perform these

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useful tasks and others: Use Excel and VBA in general  
Import data from a variety of sources Analyze data  
Perform calculations Visualize the results for interpretation and presentation Use Excel to solve specific science and engineering problems Wherever possible, the Excel Scientific and Engineering Cookbook draws on real-world examples from a range of scientific disciplines such as biology, chemistry, and physics. This way, you'll be better prepared to solve the problems you face in your everyday scientific or engineering tasks. High on practicality and low on theory, this quick, look-up reference provides instant solutions, or "recipes," to problems both basic and advanced. And like other books in O'Reilly's popular Cookbook format, each recipe also includes a discussion on how and why it works. As a result, you can take comfort in knowing that complete, practical answers are a mere page-flip away.

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 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

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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.

The accompanying CD-ROM features ready-to-run, customizable Excel worksheets derived from the book examples, which will be useful tools to add to any electronics engineer's spreadsheet toolbox. Engineers are looking for any and all means to increase their efficiency and add to their "bag of design tricks." Just about every electronics engineer uses Excel but most feel that the program has many more features to offer, if they only knew what they were! The Excel documentation is voluminous and electronics engineers don't have the time to read it all and sift through looking for those features that are directly applicable to their jobs and figure out how to use them. This book



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does that task for them-pulls out those features that they need to know about and shows them how to make use of them in specific design examples that they can then tailor to their own design needs.-

Extract accurate information from data to train and improve machine learning models using NumPy, SciPy, pandas, and scikit-learn libraries

## Key Features

Discover solutions for feature generation, feature extraction, and feature selection Uncover the end-to-end feature engineering process across continuous, discrete, and unstructured datasets Implement modern feature extraction techniques using Python's pandas, scikit-learn, SciPy and NumPy libraries

## Book Description

Feature engineering is invaluable for developing and enriching your machine learning models. In this cookbook, you will work with the best tools to streamline your feature engineering pipelines and techniques and simplify and improve the quality of your code. Using Python libraries such as pandas, scikit-learn, Featuretools, and Feature-engine, you ' ll learn how to work with both continuous and discrete datasets and be able to transform features from unstructured datasets. You will develop the skills necessary to select the best features as well as the most suitable extraction techniques. This book will cover Python recipes that will help you automate feature engineering to simplify complex processes. You ' ll also get to grips with different feature engineering strategies, such as the box-cox transform, power transform, and log transform across machine learning, reinforcement learning, and natural language processing (NLP) domains. By the end of this book, you ' ll have discovered tips and practical solutions to all of your

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feature engineering problems. What you will learn  
Simplify your feature engineering pipelines with powerful Python packages  
Get to grips with imputing missing values  
Encode categorical variables with a wide set of techniques  
Extract insights from text quickly and effortlessly  
Develop features from transactional data and time series data  
Derive new features by combining existing variables  
Understand how to transform, discretize, and scale your variables  
Create informative variables from date and time  
Who this book is for  
This book is for machine learning professionals, AI engineers, data scientists, and NLP and reinforcement learning engineers who want to optimize and enrich their machine learning models with the best features. Knowledge of machine learning and Python coding will assist you with understanding the concepts covered in this book.

In this basic introduction, the author aims to help engineers and scientists to understand and use Excel in their fields. The book is interactive and designed to be used in conjunction with a computer, to provide a hands-on learning experience.

Excel is by far the most widely distributed data analysis software but few users are aware of its full powers. *Advanced Excel For Scientific Data Analysis* takes off from where most books dealing with scientific applications of Excel end. It focuses on three areas—least squares, Fourier transformation, and digital simulation—and illustrates these with extensive examples, often taken from the literature. It also includes and describes a number of sample macros and functions to facilitate common data analysis tasks.

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These macros and functions are provided in uncompiled, computer-readable, easily modifiable form; readers can therefore use them as starting points for making their own personalized data analysis tools. Detailed descriptions and sample applications of standard and specialized uses of least squares for fitting data to a variety of functions, including resolving multi-component spectra; standard processes such as calibration curves and extrapolation; custom macros for general "error" propagation, standard deviations of Solver results, weighted or equidistant least squares, Gram-Schmidt orthogonalization, Fourier transformation, convolution and deconvolution, time-frequency analysis, and data mapping. There are also worked examples showing how to use centering, the covariance matrix, imprecision contours, and Wiener filtering and custom functions for bisections, Lagrange interpolation, Euler and Runge-Kutta integration.

Why program Excel? For solving complex calculations and presenting results, Excel is amazingly complete with every imaginable feature already in place. But programming Excel isn't about adding new features as much as it's about combining existing features to solve particular problems. With a few modifications, you can transform Excel into a task-specific piece of software that will quickly and precisely serve your needs. In other words, Excel is an ideal platform for probably millions of small spreadsheet-based software solutions. The best part is, you can program Excel with no additional tools. A variant of the Visual Basic programming language, VB for Applications (VBA) is built into Excel to facilitate its use as a platform. With VBA, you can create macros and templates, manipulate

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user interface features such as menus and toolbars, and work with custom user forms or dialog boxes. VBA is relatively easy to use, but if you've never programmed before, Programming Excel with VBA and .NET is a great way to learn a lot very quickly. If you're an experienced Excel user or a Visual Basic programmer, you'll pick up a lot of valuable new tricks. Developers looking forward to .NET development will also find discussion of how the Excel object model works with .NET tools, including Visual Studio Tools for Office (VSTO). This book teaches you how to use Excel VBA by explaining concepts clearly and concisely in plain English, and provides plenty of downloadable samples so you can learn by doing. You'll be exposed to a wide range of tasks most commonly performed with Excel, arranged into chapters according to subject, with those subjects corresponding to one or more Excel objects. With both the samples and important reference information for each object included right in the chapters, instead of tucked away in separate sections, Programming Excel with VBA and .NET covers the entire Excel object library. For those just starting out, it also lays down the basic rules common to all programming languages. With this single-source reference and how-to guide, you'll learn to use the complete range of Excel programming tasks to solve problems, no matter what you're experience level.

As one of the most widely used desktop applications ever created, Excel is familiar to just about everyone with a computer and a keyboard. Yet most of us don't know the full extent of what Excel can do, mostly because of its recent growth in power, versatility, and complexity. The truth is that there are many ways

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Excel can help make your job easier-beyond calculating sums and averages in a standard spreadsheet.

Analyzing Business Data with Excel shows you how to solve real-world business problems by taking Excel's data analysis features to the max. Rather than focusing on individual Excel functions and features, the book keys directly on the needs of business users. Most of the chapters start with a business problem or question, and then show you how to create pointed spreadsheets that address common data analysis issues. Aimed primarily at experienced Excel users, the book doesn't spend much time on the basics. After introducing some necessary general tools, it quickly moves into more specific problem areas, such as the following: Statistics Pivot tables Workload forecasting Modeling Measuring quality Monitoring complex systems Queuing Optimizing Importing data If you feel as though you're getting shortchanged by your overall application of Excel, Analyzing Business Data with Excel is just the antidote. It addresses the growing Excel data analysis market head on. Accountants, managers, analysts, engineers, and supervisors-one and all-will learn how to turn Excel functionality into actual solutions for the business problems that confront them.

Completely updated guide for students, scientists and engineers who want to use Microsoft Excel 2013 to its full potential. Electronic spreadsheet analysis has become part of the everyday work of researchers in all areas of engineering and science. Microsoft Excel, as the industry standard spreadsheet, has a range of scientific functions that can be utilized for the modeling, analysis and presentation of quantitative data. This text provides a straightforward guide to using these

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functions of Microsoft Excel, guiding the reader from basic principles through to more complicated areas such as formulae, charts, curve-fitting, equation solving, integration, macros, statistical functions, and presenting quantitative data. Content written specifically for the requirements of science and engineering students and professionals working with Microsoft Excel, brought fully up to date with the new Microsoft Office release of Excel 2013. Features of Excel 2013 are illustrated through a wide variety of examples based in technical contexts, demonstrating the use of the program for analysis and presentation of experimental results. New to this edition: The Backstage is introduced (a new Office 2013 feature); all the 'external' operations like Save, Print etc. are now in one place The chapter on charting is totally revised and updated – Excel 2013 differs greatly from earlier versions Includes many new end-of-chapter problems Most chapters have been edited to improve readability

The bestseller cookbook in Scandinavia now available in English for engineers, geeks, nerds and their friends across the world! What kind of relationship does an engineer have with food? What does an engineer eat? How does he prepare a meal? How does he organise the various stages of the cooking process? What drives him? Technical men or women behave above all rationally. They solve problems and follow through. The guests of the engineer are always satisfied, the food is served on time, and nothing gets left over. Managing the whole is an intellectual challenge for the engineer and preparing food successfully gives him deep pleasure. This book gives a systematic

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presentation of the principles behind the engineer ' s cooking skills. It helps the engineer to see what is essential in food, to recognise his own strengths, and to adapt his skills to make good food. For those not technically educated, the book offers an exhilarating insight into the inner life of the engineer – and dozens of practical and clearly-illustrated recipes that allow everyone to prepare delicious food easily. The recipes in the book are typical tried-and-tested engineer foods, such as cabbage rolls, meat loaf, prawn salad, stuffed peppers and strawberry cake. In addition to the recipes some useful dining skills are described, for instance, setting the table, seating the guests, toasting, and behaving at a restaurant.

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