Excel Scientific And Engineering Cookbook Cookbooks Oreilly

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This book will help you solve more than 300 of the most common and not-so-common tasks that working Visual Basic 2005 programmers face every day. If you're a seasoned .NET developer, beginning Visual Basic programmer, or a developer seeking a simple and clear migration path from VB6 to Visual Basic 2005, the Visual Basic 2005 Cookbook delivers a practical collection of problem-solving recipes for a broad range of Visual Basic programming tasks. The concise solutions and examples in the Visual Basic 2005 Cookbook range from simple tasks to the more complex, organized by the types of problems you need to solve. Nearly every recipe contains a complete, documented code sample showing you how to solve the specific problem, as well as a discussion of how the underlying technology works and that outlines alternatives, limitations, and other considerations. As with all O'Reilly Cookbooks, each recipe helps you quickly understand a problem, learn how to solve it, and anticipate potential tradeoffs or ramifications. Useful features of the book include: Over 300 recipes written in the familiar O'Reilly Problem-Solution-Discussion format Hundreds of code snippets, examples, and complete solutions available for download VB6 updates to alert VB6 programmers to code-breaking changes in Visual Basic 2005 Recipes that target Visual

Basic 2005 features not included in previous releases Code examples covering everyday data manipulation techniques and language fundamentals Advanced projects focusing on multimedia and mathematical transformations using linear algebraic methods Specialized topics covering files and file systems, printing, and databases In addition, you'll find chapters on cryptography and compression, graphics, and special programming techniques. Whether you're a beginner or an expert, the Visual Basic 2005 Cookbook is sure to save you time, serving up the code you need, when you need it.

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In its most advanced form, Integrated Computational Materials Engineering (ICME) holistically integrates manufacturing simulation, advanced materials models and component performance analysis. This volume contains thirty-five papers presented at the 1st World Congress on Integrated Computational Materials Engineering. Modeling processing-microstructure relationships, modeling microstructure-property relationships, and the role of ICME in graduate and undergraduate education are discussed. Ideal as a primary text for engineering students, this book motivates a wider understanding of the advantages and limitations offered by the various computational (and coordinated experimental) tools of this field.

Millions of users create and share Excel spreadsheets every day, but few go deeply enough to learn the techniques that will make their work much easier. There are many

ways to take advantage of Excel's advanced capabilities without spending hours on advanced study. Excel Hacks provides more than 130 hacks -- clever tools, tips and techniques -- that will leapfrog your work beyond the ordinary. Now expanded to include Excel 2007, this resourceful, roll-up-your-sleeves guide gives you little known "backdoor" tricks for several Excel versions using different platforms and external applications. Think of this book as a toolbox. When a need arises or a problem occurs, you can simply use the right tool for the job. Hacks are grouped into chapters so you can find what you need quickly, including ways to: Reduce workbook and worksheet frustration -- manage how users interact with worksheets, find and highlight information, and deal with debris and corruption. Analyze and manage data -- extend and automate these features, moving beyond the limited tasks they were designed to perform. Hack names -- learn not only how to name cells and ranges, but also how to create names that adapt to the data in your spreadsheet. Get the most out of PivotTables -- avoid the problems that make them frustrating and learn how to extend them. Create customized charts -- tweak and combine Excel's built-in charting capabilities. Hack formulas and functions -- subjects range from moving formulas around to dealing with datatype issues to improving recalculation time. Make the most of macros -- including ways to manage them and use them to extend other features. Use the enhanced capabilities of Microsoft Office 2007 to combine Excel with Word, Access, and Outlook. You can either browse through the book or read it from cover to cover, studying the procedures and

scripts to learn more about Excel. However you use it, Excel Hacks will help you increase productivity and give you hours of "hacking" enjoyment along the way. Proficiency in volumetric analysis is a key skill for chemists in research and industry. This work seeks to 'modernise' approaches to volumetric analysis, by relating practical work to vocationally-relevant topics, whilst maintaining the rigor required for satisfactory performance in practical examinations. Written by someone who has experienced both teaching and working as a research chemist, this up to date textbook on practical volumetric analysis will provide the theoretical chemistry associated with volumetric analysis supported by a selection of practicals. There will also be suggestions for a number of investigations which could form the basis of project-based learning or coursework, particularly for those pursing vocational science courses. Section 1 will consist of three theory chapters, covering preliminary concepts (fundamentals of chemistry, essential quantitative chemistry and concepts of statistics). Section 2 will be divided into four chapters, based on the four main divisions of volumetric analysis (acid-base titrimetry, redox titrimetry, precipitation titrimetry and complexometric titrimetry). Each chapter in this section will start with a review of essential theory, with worked examples and illustrations where appropriate, and end with a selection of laboratory practicals. Each chapter will also contain a number of open-ended investigations, for use in project-based learning or coursework. Section 3 will address more advanced topics and be divided into four chapters (volumetric analysis in industry, further

statistical concepts, mathematics of titrimetry and advanced titrimetry). Practical work and suggestions for further reading will be included where appropriate. Practical Volumetric Analysis is suitable for students taking modules in introductory chemistry and analytical chemistry on undergraduate degree courses as well as providing guidance to non-specialists teaching chemistry.

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Excel Scientific and Engineering CookbookAdding Excel to Your Analysis Arsenal"O'Reilly Media, Inc."

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Today, interpreting data is a critical decision-making factor for businesses and organizations. If your job requires you to manage and analyze all kinds of data, turn to Head First Data Analysis, where you'll quickly learn how to collect and organize data, sort the distractions from the truth, find meaningful patterns, draw conclusions, predict the future, and present your findings to others. Whether you're a product developer researching the market viability of a new product or service, a marketing manager gauging or predicting the effectiveness of a campaign, a salesperson who needs data to support product presentations, or a lone entrepreneur responsible for all of these data-intensive functions and more, the unique approach in Head First Data Analysis is by far the most efficient way

to learn what you need to know to convert raw data into a vital business tool. You'll learn how to: Determine which data sources to use for collecting information Assess data quality and distinguish signal from noise Build basic data models to illuminate patterns, and assimilate new information into the models Cope with ambiguous information Design experiments to test hypotheses and draw conclusions Use segmentation to organize your data within discrete market groups Visualize data distributions to reveal new relationships and persuade others Predict the future with sampling and probability models Clean your data to make it useful Communicate the results of your analysis to your audience Using the latest research in cognitive science and learning theory to craft a multi-sensory learning experience, Head First Data Analysis uses a visually rich format designed for the way your brain works, not a text-heavy approach that puts you to sleep.

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Inhaltsangabe:Einleitung: Design for Manufacturing (DfM) und Design for Test (DfT) sind der Schlüssel zur wirtschaftlichen Halbleiterproduktion der neuen

Technologiegenerationen. Damit ein schnelles Ramp-up mit anschließend hoher Ausbeute erreicht werden kann, ist neben einer großen Robustheit gegenüber Fertigungstoleranzen zunehmend die rasche Identifizierung und Beseitigung der Ausfallursachen gefertigter Chips erforderlich. In der Halbleiterindustrie werden Testergebnisse fehlerhafter Chips in bestimmte Kategorien unterteilt, um Design und Fertigung eine Rückmeldung über die Ausfallursachen zu geben. Fortschreitende Strukturverkleinerungen begünstigen allerdings zunehmend neue Fehlerursachen und haben daher durch längere Lernprozesse eine geringere Ausbeute während der Ramp-up-Phase zufolge. Um dieser Entwicklung standhalten zu können, ist ein engeres Zusammenwirken zwischen Design, Test und Fertigung unter besonderer Beachtung von DfM und DfT notwendig. Das Design muss eine hohe Ausbeute erlauben und der Chip muss effizient zu testen sein. Damit man genauere Informationen über die Fehlerursache eines defekten Chips erhält, müssen die bisherigen Testmöglichkeiten z.B. um adaptives Testen erweitert werden. Fehlerhafte Netze können bereits durch die Scan-Diagnose lokalisiert werden. Durch die Diagnose sehr vieler Chips können statistische Häufungen von Fehlerorten gefunden werden, wodurch relevante Stichproben für eine physikalische Fehleranalyse selektiert werden können. Die Scan-Diagnose ermöglicht also eine detaillierte

Analyse mit geringem Testaufwand. Neben der Verbesserung der Testmöglichkeiten ist es von großer Bedeutung, bereits vor der Ramp-up-Phase eines neuen Produkts das Design in seiner erwarteten Ausbeute beurteilen zu können. Random-Yield-Modelle wie die Critical-Area-Analyse stellen bereits gute Prognosen, jedoch gibt es in der Realität oft Abweichungen von dieser Beurteilung. Zur Untersuchung von möglichen Einflüssen auf die Ausbeute wird in dieser Masterarbeit eine neue Methodik entwickelt, durch welche der Zusammenhang zwischen Testausfällen, Critical-Area-Analyse und systematischen Fehlern besser erklärt werden kann. Es wird ein Software-Werkzeug entwickelt, welches die unterschiedlichen Formate aus Testergebnissen und Designdaten auf eine einheitliche Form bringen kann. Mit dem Werkzeug werden die Daten eines aktuellen Chips analysiert und auf deren Zusammenhang bewertet. Nach einer kurzen Einführung in die Grundlagen der [...]

William H.Gates III????

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 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.

Written in Cookbook style, the code examples will take your Numpy skills to the next level. This book will take Python developers with basic Numpy skills to the next level through some practical recipes.

Do you use Excel for simple lists, but get confused and frustrated when it comes to actually doing something useful with all that data? Stop tearing your hair out: Head First Excel helps you painlessly move from spreadsheet dabbler to savvy user. Whether you're completely new to Excel or an experienced user looking to make the program work better for you, this book will

help you incorporate Excel into every aspect of your workflow, from a scratch pad for data-based brainstorming to exploratory analysis with PivotTables, optimizing outcomes with Goal Seek, and presenting your conclusions with sophisticated data visualizations. Organize and clearly present information in a spreadsheet Make calculations across a number of worksheets Change your point of view with sorting, zooming, and filtering Manipulate numerical data to extract and use just what you need Leverage Excel as a grid-based layout program Write formulas for optimal functionality Nest formulas for more complex operations Create sophisticated data visualizations with charts and graphs Use Goal Seek to optimize possible outcomes based on different assumptions Create summaries from large data sets for exploratory data analysis with PivotTables We think your time is too valuable to waste struggling with new concepts. Using the latest research in cognitive science and learning theory to craft a multi-sensory learning experience, Head First Excel uses a visually rich format designed for the way your brain works, rather than a text-heavy approach that will put you to sleep.

Traditional Chinese edition of Ten Little Fingers and Ten Little Toes by Helen Oxenbury and Mem Fox. In Chinese. Distributed by Tsai Fong Books, Inc.

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Die ganze Welt steckt voller Daten, und Ihre Aufgabe ist es, sie sinnvoll zu deuten. Aber wo sollen Sie beginnen? Datenanalyse von Kopf bis Fuß zeigt Ihnen den Weg durch den Dschungel: Sie lernen, wie Sie Ihre Daten in Excel organisieren, sie mit R

weiter bearbeiten, mithilfe von Streudiagrammen und Histogrammen aussagekräftige Muster erkennen, mit Heuristiken Schlüsse ziehen, durch gezielte Experimente und das überprüfen von Hypothesen zukünftige Entwicklungen vorhersagen können - und wie Sie all Ihre Ergebnisse überzeugend visualisieren und präsentieren. Vielleicht sind Sie Produktmanager und wollen die Marktfähigkeit eines neuen Produkts bestimmen. Oder Sie möchten als Marketingleiterin den Erfolg einer Werbekampagne messen. Vielleicht arbeiten Sie auch im Vertrieb und müssen Verkaufszahlen präsentieren, oder Sie sind selbständig und für alle diese datenintensiven Aufgaben zuständig. Ganz gleich - Datenanalyse von Kopf bis Fuß zeigt Ihnen, wie Sie Ihre Daten zu Ihrem wertvollsten Arbeitsmittel machen.

Learn to fully harness the power of Microsoft Excel® to perform scientific and engineering calculations With this text as your guide, you can significantly enhance Microsoft Excel's® 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® 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 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 ????????Servlet?JSP,??????????(???????????),????JSP?????,JSP??????,????????
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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 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.-
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Over 60 practical recipes on data exploration and analysis About This Book Clean dirty data, extract accurate information, and explore the relationships between variables Forecast the output of an electric plant and the water flow of American rivers using pandas, NumPy, Statsmodels, and scikit-learn Find and extract the most important

features from your dataset using the most efficient Python libraries Who This Book Is For If you are a beginner or intermediate-level professional who is looking to solve your day-to-day, analytical problems with Python, this book is for you. Even with no prior programming and data analytics experience, you will be able to finish each recipe and learn while doing so. What You Will Learn Read, clean, transform, and store your data usng Pandas and OpenRefine Understand your data and explore the relationships between variables using Pandas and D3.js Explore a variety of techniques to classify and cluster outbound marketing campaign calls data of a bank using Pandas, mlpy, NumPy, and Statsmodels Reduce the dimensionality of your dataset and extract the most important features with pandas, NumPy, and mlpy Predict the output of a power plant with regression models and forecast water flow of American rivers with time series methods using pandas, NumPy, Statsmodels, and scikit-learn Explore social interactions and identify fraudulent activities with graph theory concepts using NetworkX and Gephi Scrape Internet web pages using urlib and BeautifulSoup and get to know natural language processing techniques to classify movies ratings using NLTK Study simulation techniques in an example of a gas station with agent-based modeling In Detail Data analysis is the process of systematically applying statistical and logical techniques to describe and illustrate, condense and recap, and evaluate data. Its importance has been most visible in the sector of information and communication technologies. It is an employee asset in almost all economy sectors. This book provides

a rich set of independent recipes that dive into the world of data analytics and modeling using a variety of approaches, tools, and algorithms. You will learn the basics of data handling and modeling, and will build your skills gradually toward more advanced topics such as simulations, raw text processing, social interactions analysis, and more. First, you will learn some easy-to-follow practical techniques on how to read, write, clean, reformat, explore, and understand your data—arguably the most time-consuming (and the most important) tasks for any data scientist. In the second section, different independent recipes delve into intermediate topics such as classification, clustering, predicting, and more. With the help of these easy-to-follow recipes, you will also learn techniques that can easily be expanded to solve other real-life problems such as building recommendation engines or predictive models. In the third section, you will explore more advanced topics: from the field of graph theory through natural language processing, discrete choice modeling to simulations. You will also get to expand your knowledge on identifying fraud origin with the help of a graph, scrape Internet websites, and classify movies based on their reviews. By the end of this book, you will be able to efficiently use the vast array of tools that the Python environment has to offer. Style and approach This hands-on recipe guide is divided into three sections that tackle and overcome real-world data modeling problems faced by data analysts/scientist in their everyday work. Each independent recipe is written in an easy-to-follow and step-by-step fashion.

The utilization of sensors, communications, and computer technologies to create greater efficiency in the generation, transmission, distribution, and consumption of electricity will enable better management of the electric power system. As the use of smart grid technologies grows, utilities will be able to automate meter reading and billing and consumers will be more aware of their energy usage and the associated costs. The results will require utilities and their suppliers to develop new business models, strategies, and processes. With an emphasis on reducing costs and improving return on investment (ROI) for utilities, Smart Grids: Clouds, Communications, Open Source, and Automation explores the design and implementation of smart grid technologies, considering the benefits to consumers as well as businesses. Focusing on industrial applications, the text: Provides a state-of-the-art account of the smart grid Explains how smart grid technologies are currently being used Includes detailed examples and test cases for real-life implementation Discusses trade-offs associated with the utilization of smart grid technologies Describes smart grid simulation software and offers insight into the future of the smart grid The electric power grid is in the early stages of a sea of change. Nobody knows which business models will survive, but companies heeding the lessons found in Smart Grids: Clouds, Communications, Open Source, and Automation might just increase their chances for success.
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