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Advanced Functions Advanced R Advanced Functions 12 Advanced Calculus Temporal GIS Advanced Functions Matlab Harcourt Advanced Functions and Introductory Calculus McGraw-Hill Ryerson Calculus & Advanced Functions Advanced Algebra Examples and Problems in Advanced Calculus: Real-Valued Functions Chapter Teaching Resource PowerShell Advanced Cookbook Calculus Mastering PowerCLI Advanced Functions 12 Handbook of Mathematical Functions Ultimate PowerShell Automation for System Administration College Algebra PostgreSQL Server Programming - Second Edition PowerShellNotes For Professionals The Fractional Trigonometry World of Warcraft Programming Quantum C: Building Skills for Software Development Electronic Transport in Mesoscopic Systems Python Essentials TI-83 Plus Graphing Calculator For Dummies Learn JavaScript Basics - A Brief Guide Head First C Excel 2013 Formulas Learn PowerShell Scripting in a Month of Lunches, Second Edition Begin to Code with Python Financial Modeling in Excel For Dummies Functionalism Revisited LibreOffice 6.2 Calc Guide GETTING STARTED WITH OPENOFFICE CALC CATIA V5 Design Fundamentals PowerShell Deep Dives Qlik Sense for Beginners Learn SQL with MySQL

Addresses the rapidly growing field of fractional calculus and provides simplified solutions for linear commensurate-order fractional differential equations The Fractional Trigonometry: With Applications to Fractional Differential Equations and Science is the result of the authors' work in fractional calculus, and more particularly, in functions for the solutions of fractional differential equations, which is fostered in the behavior of generalized exponential functions. The authors discuss how fractional trigonometry plays a role analogous to the classical trigonometry for the fractional calculus by providing solutions to linear fractional differential equations. The book begins with an introductory chapter that offers insight into the fundamentals of fractional calculus, and topical coverage is then organized in two main parts. Part One develops the definitions and theories of fractional exponentials and fractional trigonometry. Part Two provides insight into various areas of potential application within the sciences. The fractional exponential function via the fundamental fractional differential equation, the generalized exponential function, and R-function relationships are discussed in addition to the fractional hyperbolety, the R1-fractional trigonometry, the R2-fractional trigonometry, and the R3-trigonometric functions. The Fractional Trigonometry: With Applications to Fractional Differential Equations and Science also: Presents fractional trigonometry as a tool for scientists and engineers and discusses how to apply fractional-order methods to the current toolbox of mathematical modelers Employs a mathematically clear presentation in an e ort to make the topic broadly accessible Includes solutions to linear fractional differential equations and generously features graphical forms of functions to help readers visualize the presented concepts Provides

effective and efficient methods to describe complex structures

The Fractional Trigonometry: With Applications to Fractional Differential Equations and Science is an ideal reference for academic researchers, research engineers, research scientists, mathematicians, physicists, biologists, and chemists who need to apply new fractional calculus methods to a variety of disciplines. The book is also appropriate as a textbook for graduate- and PhD-level courses in fractional calculus. Carl F. Lorenzo is Distinguished Research Associate at the NASA Glenn Research Center in Cleveland, Ohio. His past positions include chief engineer of the Instrumentation and Controls Division and chief of the Advanced Controls Technology and Systems Dynamics branches at NASA. He is internationally recognized for his work in the development and application of the fractional calculus and fractional trigonometry. Tom T. Hartley, PhD, is Emeritus Professor in the Department of Electrical and Computer Engineering at The University of Akron. Dr Hartley is a recognized expert in fractional-order systems, and together with Carl Lorenzo, has solved fundamental problems in the area including Riemann's complementary-function initialization function problem. He received his PhD in Electrical Engineering from Vanderbilt University. Want to learn Qlik Sense? Do you want to learn the next generation of data visualization software called Qlik Sense? Start to explore your data with personalized visualizations... Business intelligence has changed a lot in recent years and Qlik have provided a revolutionary product to meet these changes head on. Qlik Sense will allow you to create dynamic dashboards to explore data in ways you didn't think were possible. You will be able to analyse your data so you can make informed decisions that help you reach your goals. With the book 'Qlik Sense for Beginners' you'll discover a step-by-step concise approach to learning Qlik Sense. Inside this book you'll discover: How to get started with Qlik Sense from installation to creating your first app. How to read different data sources such as Excel, Access Data or simply text files into your app. How to create various charts and tables in Qlik Sense for example bar, gauges, line, combo, treemaps and scatter plots. How to manage the data in your Qlik Sense app. After the basics you'll learn: Development Tips – such as migrating from QlikView to Qlik Sense. Development Techniques - for example subroutines, external scripts and crosstables. Advanced Functions such as Class, Intervalmatch, Dual and more. Set analysis and Inner Joins. QVDs and Incremental loads. Bookmarks. Storytelling. Qlik Sense Extensions. And much more... Start learning today and take the understanding of your data to the next level. www.techstuffybooks.com

A thorough account of the theory of electronic transport in semiconductor nanostructures. Make informed business decisions with the beginner's guide to financial modeling using Microsoft Excel. **Financial Modeling in Excel For Dummies** is your comprehensive guide to learning how to create informative, enlightening financial models today. Not a math whiz or an Excel power-user? No problem! All you need is a basic understanding of Excel to start building simple models with practical hands-on exercises and before you know it, you'll be modeling your way to optimized profits for your business in no time. Excel is powerful, user-friendly, and is most likely already installed on your computer—which is why it has so readily become the most popular financial modeling software. This book shows you how to harness Excel's capabilities to determine profitability, develop budgetary projections, model depreciation, project costs, value assets and more. You'll learn the fundamental best practices and know-how of financial modeling, and how to put them to work for your business and your clients. You'll learn the tools and techniques that bring insight out of the numbers, and make better business decisions based on quantitative evidence. You'll discover that financial modeling is an invaluable resource for your business, and you'll wonder why you've waited this long to learn how! Companies around the world use financial modeling for decision making, to steer strategy, and to develop solutions. This book walks you through the process with clear, expert guidance that assumes little prior knowledge. Learn the six crucial rules to follow when building a successful financial model. Discover how to review and edit an inherited

financial model and align it with your business and financial strategy Solve client problems, identify market projections, and develop business strategies based on scenario analysis Create valuable customized templates models that can become a source of competitive advantage From multinational corporations to the mom-and-pop corner store, there isn't a business around that wouldn't benefit from financial modeling. No need to buy expensive specialized software—the tools you need are right there in Excel. Financial Modeling in Excel For Dummies gets you up to speed quickly so you can start reaping the benefits today! An extensive summary of mathematical functions that occur in physical and engineering problems A range of current approaches to architecture are neglected in our contemporary writings on design philosophies. This book argues that the model of 'function' and the concept of a 'functional building' that we have inherited from the twentieth-century Modernists is limited in scope and detracts from a full understanding of the purposes served by the built environment. It simply does not cover the range of functions that buildings can afford nor is it tied in a conceptually clear manner to our contemporary concepts of architectural theory. Based on Abraham Maslow's theory of human motivations, and following on from Lang's widely-used text, *Creating Architectural Theory: The Role of the Behavioral Sciences in Environmental Design*, Lang and Moleski here propose a new model of functionalism that responds to numerous observations on the inadequacy of current ways of thinking about functionalism in architecture and urban design. Copiously illustrated, the book puts forward this model and then goes on to discuss in detail each function of buildings and urban environments. PowerShell is a cross-platform task automation solution made up of a command-line shell, a scripting language, and a configuration management framework. PowerShell runs on Windows, Linux, and macOS. The #1 bestselling programming book is back with updated and expanded coverage of the newest release of WoW! World of Warcraft (WoW) is currently the world's largest massively multiplayer online role-playing game. The newest release, "Wrath of the Lich King," has created a demand for updated information on writing addons. This eagerly anticipated edition answers that request and is an essential reference for creating WoW addons. Written by a duo of authors who have each contributed a number of successful WoW addons, the book offers an overview of Lua and XML (the programming languages used to write addons) and includes coverage of specific pitfalls and common programming mistakes—and how to avoid them. Valuable examples show you detailed aspects of writing addons for WoW and demonstrate how to implement addon concepts such as variables, slash commands, secure templates, and more. World of Warcraft insiders share their techniques for writing addons for both the latest version of WoW as well as the new Wrath of the Lich King expansion set Guides you through the specific nuances of the WoW API with the use of detailed examples Discusses ways to distribute and host your WoW addons so others can download and use them Explains how to respond to events, create frames, and use the WoW API to interact with the game You'll be well on your way to creating exciting WoW addons with this comprehensive reference by your side. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file. Python Essentials provides a vital tour of the most critical features of Python. Starting with setup and installation, you will soon dive into exploring built-in-library types, Python's rich collection of operators and built-in functions, variables, assignment and scoping rules. From this foundation, you will explore functions, a crucial aspect of any programming language, including considerable sophistication in defining parameters to a function and providing argument values. Explore advanced functional programming using generator expressions, comprehensions, and generator functions. Handle file input and output using web services and context managers, exception handling and explore wider, popular frameworks. Through this concise and practical guide, you will explore all you need to know to leverage this powerful, and industry-standard, programming language. The book focuses on the development of advanced functions for

field-based temporal geographical information systems (TGIS). These fields describe natural, epidemiological, economical, and social phenomena distributed across space and time. The book is organized around four main themes: "Concepts, mathematical tools, computer programs, and applications". Chapters I and II review the conceptual framework of the modern TGIS and introduce the fundamental ideas of spatiotemporal modelling. Chapter III discusses issues of knowledge synthesis and integration. Chapter IV presents state-of-the-art mathematical tools of spatiotemporal mapping. Links between existing TGIS techniques and the modern Bayesian maximum entropy (BME) method offer significant improvements in the advanced TGIS functions. Comparisons are made between the proposed functions and various other techniques (e.g., Kriging, and Kalman-Bucy filters). Chapter V analyzes the interpretive features of the advanced TGIS functions, establishing correspondence between the natural system and the formal mathematics which describe it. In Chapters IV and V one can also find interesting extensions of TGIS functions (e.g., non-Bayesian connectives and Fisher information measures). Chapters VI and VII familiarize the reader with the TGIS toolbox and the associated library of comprehensive computer programs. Chapter VIII discusses important applications of TGIS in the context of scientific hypothesis testing, explanation, and decision making. An Essential Reference for Intermediate and Advanced R Programmers

Advanced R presents useful tools and techniques for attacking many types of R programming problems, helping you avoid mistakes and dead ends. With more than ten years of experience programming in R, the author illustrates the elegance, beauty, and flexibility at the heart of R. The book develops the necessary skills to produce quality code that can be used in a variety of circumstances. You will learn: The fundamentals of R, including standard data types and functions Functional programming as a useful framework for solving wide classes of problems The positives and negatives of metaprogramming How to write fast, memory-efficient code This book not only helps current R users become R programmers but also shows existing programmers what's special about R. Intermediate R programmers can dive deeper into R and learn new strategies for solving diverse problems while programmers from other languages can learn the details of R and understand why R works the way it does. This book focuses on CALC, the free OpenOffice spreadsheet application. You will study the basics, such as the different menus, the cells management, the manipulation of the rows and columns, the formatting of information, the printing layout, but also the realization of simple and complex calculations using functions. You will discover other possibilities : the manipulation of dates, the charts, the lists of data and the pivot tables that enable you to create statistics easily. The macros will be presented. This book is intended for people who want to progress and are looking for the different features of this spreadsheet. Enjoy your reading ! ABOUT THE AUTHOR Rémy Lentzner has been an IT trainer since 1985. Specialized in mastering office automation tools, he supports companies in the professional training of their employees. Self-taught, he has several computer books to his credit. Welcome to the world of C programming! This book is designed to be your comprehensive guide to mastering the C programming language, one of the most powerful and widely used programming languages in the world. Whether you are a complete beginner or an experienced programmer looking to enhance your skills, this book will provide you with a solid foundation in C programming concepts and techniques. TAGLINE Power Up Your Automation and Administration with PowerShell KEY FEATURES ? Master PowerShell for efficient IT administration and configuration. ? Explore practical scenarios with clear explanations and essential scripts. ? Enhance automation skills to stay ahead in IT innovation. ? Optimize Microsoft product management with advanced PowerShell techniques. DESCRIPTION Unlock the power of PowerShell with this comprehensive guide, designed as your ultimate companion, the book is structured into three parts, each focusing on different aspects of PowerShell. You'll start with the basics and then explore PowerShell Core's unique features.

Next, you'll delve into building blocks, pipelines, and data control with arrays, loops, and hash tables. As you progress, you'll master PowerShell security and develop advanced functions to automate complex tasks. Further chapters will guide you through optimizing Windows administration, managing tasks and jobs, and exploring remoting features for efficient multi-system management. Finally, you'll leverage PowerShell for cloud operations and integrate it seamlessly with the Microsoft ecosystem. This book provides a progressive journey in PowerShell automation, equipping you with essential skills for various tasks, from Windows administration to cloud operations. **WHAT WILL YOU LEARN** ? Master PowerShell and PowerShell Core fundamentals, syntax, and cmdlets. ? Develop robust scripts using variables, arrays, conditionals, loops, and hash tables. ? Implement security best practices to safeguard data and systems. ? Create advanced functions to streamline script development. ? Administer Windows environments efficiently with PowerShell. ? Automate tasks and optimize system performance with PowerShell. ? Utilize PowerShell remoting for remote administration and cross-platform execution. ? Manage cloud resources using PowerShell for provisioning and configuration. ? Integrate PowerShell with Microsoft ecosystem components like Active Directory and Azure. ? Create custom modules for enhanced efficiency, including support for other cloud vendors. ? Enhance PowerShell scripting and automation skills to automate tasks, troubleshoot issues, and optimize workflows across diverse computing environments. ? Master cloud automation with PowerShell, efficiently automating tasks in Azure and AWS to manage cloud resources effectively. **WHO IS THIS BOOK FOR?** This book is tailored for IT professionals, system administrators, database administrators, and automation engineers seeking to enhance efficiency through PowerShell automation across diverse platforms. Prerequisites include basic understanding of IT systems and familiarity with command-line interfaces. Whether managing server configurations, administering databases, or navigating complex projects, this resource equips you with the skills to streamline tasks effectively using PowerShell. **TABLE OF CONTENTS** Part 1 Fundamentals of PowerShell 1. Introduction to PowerShell 2. Introduction to PowerShell Core 3. PowerShell Building Blocks and Pipelines Part 2 PowerShell Scripting and Automation 4. Data Control and Arrays Using Conditional Statements, Loops, and Hashtables 5. PowerShell Security 6. PowerShell Advanced Functions 7. Windows Administration Using PowerShell Part 3 PowerShell Advanced Topics 8. PowerShell Tasks and Jobs 9. PowerShell Remoting 10. Managing Cloud Operations Using PowerShell 11. PowerShell and Microsoft Ecosystem Index Learn key topics such as language basics, pointers and pointer arithmetic, dynamic memory management, multithreading, and network programming. Learn how to use the compiler, the make tool, and the archiver. This lucid and balanced introduction for first year engineers and applied mathematicians conveys the clear understanding of the fundamentals and applications of calculus, as a prelude to studying more advanced functions. Short and fundamental diagnostic exercises at the end of each chapter test comprehension before moving to new material. Provides a clear understanding of the fundamentals and applications of calculus, as a prelude to studying more advanced functions Includes short, useful diagnostic exercises at the end of each chapter This book is for moderate to advanced PostgreSQL database professionals who wish to extend PostgreSQL, utilizing the most updated features of PostgreSQL 9.4. For a better understanding of this book, familiarity with writing SQL, a basic idea of query tuning, and some coding experience in your preferred language is expected. An authorised reissue of the long out of print classic textbook, Advanced Calculus by the late Dr Lynn Loomis and Dr Shlomo Sternberg both of Harvard University has been a revered but hard to find textbook for the advanced calculus course for decades. This book is based on an honors course in advanced calculus that the authors gave in the 1960's. The foundational material, presented in the unstarred sections of Chapters 1 through 11, was normally covered, but different applications of this basic material were stressed from year to

year, and the book therefore contains more material than was covered in any one year. It can accordingly be used (with omissions) as a text for a year's course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites are a good grounding in the calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory texts, we mention Differential and Integral Calculus by R Courant, Calculus by T Apostol, Calculus by M Spivak, and Pure Mathematics by G Hardy. The reader should also have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds. College Algebra provides a comprehensive exploration of algebraic principles and meets scope and sequence requirements for a typical introductory algebra course. The modular approach and richness of content ensure that the book meets the needs of a variety of courses. College Algebra offers a wealth of examples with detailed, conceptual explanations, building a strong foundation in the material before asking students to apply what they've learned. Coverage and Scope In determining the concepts, skills, and topics to cover, we engaged dozens of highly experienced instructors with a range of student audiences. The resulting scope and sequence proceeds logically while allowing for a significant amount of flexibility in instruction. Chapters 1 and 2 provide both a review and foundation for study of Functions that begins in Chapter 3. The authors recognize that while some institutions may find this material a prerequisite, other institutions have told us that they have a cohort that need the prerequisite skills built into the course. Chapter 1: Prerequisites Chapter 2: Equations and Inequalities Chapters 3-6: The Algebraic Functions Chapter 3: Functions Chapter 4: Linear Functions Chapter 5: Polynomial and Rational Functions Chapter 6: Exponential and Logarithm Functions Chapters 7-9: Further Study in College Algebra Chapter 7: Systems of Equations and Inequalities Chapter 8: Analytic Geometry Chapter 9: Sequences, Probability and Counting Theory Master PowerCLI to automate all aspects of VMware environments About This Book Leverage PowerCLI to perform administration tasks in a more effective and efficient way Escape from daily tedious and repetitive tasks by unleashing the full potential of your creative side through scripting Master the intricate workings of PowerShell and PowerCLI through easy and real-life examples Who This Book Is For If you are a system administrator with working knowledge of PowerShell and PowerCLI who wants to perform quick and easy scripting but at the same time achieve complex results and write production grade scripts, then this book is for you. What You Will Learn Use GitHub for collaboration and Pester to automate unit tests Write advanced reusable functions and dynamic variables and learn about error handling in PowerShell Automate ESXi host installation using Auto-Deploy, host profile, and host image Implement security best practices in a vSphere data center Manage SRM, vCloud Air, and vRealize Operations environments Access and utilize vSphere APIs to manage advanced aspects of vSphere and work with .NET view objects Utilize REST APIs to manage vRealize Automation environments Create a Windows GUI through the use of PowerShell and Sapien PrimalForms CE In Detail Have you ever wished that every morning you could automatically get a report with all the relevant information about your datacenter in exactly the same format you want? Or whether you could automate that boring, exhausting task? What if some crucial task needs to be performed on a regular basis without any error? PowerCLI scripts do all that and much more for VMware environments. It is built on top of the popular Windows PowerShell, with which you can automate server tasks and reduce manual input, allowing you to focus on more important tasks. This book will help you to achieve your goals by starting with a short refresher on PowerShell and PowerCLI and then covering the nuances of advanced

functions and reusable scripts. Next you will learn how to build a vSphere-powered virtualized datacenter using PowerCLI while managing different aspects of the environment including automated installation, network, and storage. You will then manage different logical constructs of vSphere environment and different aspects of a virtual machine. Later, you will implement the best practices for a security implementation in vSphere Environment through PowerCLI before discovering how to manage other VMware environments such as SRM, vCloud Director and vCloud Air through PowerCLI. You will also learn to manage vSphere environments using advanced properties by accessing vSphere API and REST APIs through PowerCLI. Finally, you will build a Windows GUI application using PowerShell followed by a couple of sample scripts for reporting and managing vSphere environments with detailed explanations of the scripts. By the end of the book, you will have the required in-depth knowledge to master the art of PowerCLI scripting.

Style and approach In this book, every topic is explained in a very easy-to-follow fashion with real-life, simple examples so that you get an idea of not only the topic but also the context in which it should be used or where it can be best utilized.

MATLAB: A Practical Introduction to Programming and Problem Solving, Second Edition, is the only book that gives a full introduction to programming in MATLAB combined with an explanation of MATLAB's powerful functions, enabling engineers to fully exploit the software's power to solve engineering problems. The text aims to provide readers with the knowledge of the fundamentals of programming concepts and the skills and techniques needed for basic problem solving using MATLAB as the vehicle. The book presents programming concepts such as variables, assignments, input/output, and selection statements as well as MATLAB built-in functions side-by-side, giving students the ability to program efficiently and exploit the power of MATLAB to solve problems. In-depth coverage is given to input/output, a topic that is fundamental to many engineering applications. A systematic, step-by-step approach that builds on concepts is used throughout the book, facilitating easier learning. There are also sections on 'common pitfalls' and 'programming guidelines' that direct students towards best practice. This book will be an invaluable resource for engineers, engineering novices, and students learning to program and model in MATLAB.

Presents programming concepts and MATLAB built-in functions side-by-side, giving students the ability to program efficiently and exploit the power of MATLAB to solve problems

In depth coverage of file input/output, a topic essential for many engineering applications

Systematic, step-by-step approach, building on concepts throughout the book, facilitating easier learning

Sections on 'common pitfalls' and 'programming guidelines' direct students towards best practice

New to this edition: More engineering applications help the reader learn Matlab in the context of solving technical problems

New and revised end of chapter problems Stronger coverage of loops and vectorizing in a new chapter, chapter 5

Updated to reflect current features and functions of the current release of Matlab Become a Python programmer—and have fun doing it! Start writing software that solves real problems, even if you have absolutely no programming experience! This friendly, easy, full-color book puts you in total control of your own learning, empowering you to build unique and useful programs. Microsoft has completely reinvented the beginning programmer's tutorial, reflecting deep research into how today's beginners learn, and why other books fall short. **Begin to Code with Python** is packed with innovations, from its "Snaps" prebuilt operations to its "Make Something Happen" projects. Whether you're a total beginner or you've tried before, this guide will put the power, excitement, and fun of programming where it belongs: in your hands! Easy, friendly, and you're in control! Learn how to... Get, install, and use powerful free tools to create modern Python programs Learn key concepts from 170 sample programs, and use them to jumpstart your own Discover exactly what happens when a program runs Approach program development with a professional perspective Learn the core elements of the Python language Build more complex software with classes, methods, and objects

Organize programs so they're easy to build and improve Capture and respond to user input Store and manipulate many types of real-world data Define custom data types to solve specific problems Create interactive games that are fun to play Build modern web and cloud-based applications Use pre-built libraries to quickly create powerful software Get code samples, including complete apps, at: <https://aka.ms/BegintoCodePython/downloads> About This Book For absolute beginners who've never written a line of code For anyone who's been frustrated with other beginning programming books or courses For people who've started out with other languages and now want to learn Python Works with Windows PC, Apple Mac, Linux PC, or Raspberry Pi Includes mapping of MTA exam objectives that are covered in this book, as well as an appendix with further explanation of some of the topics on the exam This textbook explains how to create models with freeform surfaces using CATIA V5. CATIA is a three dimensional CAD/CAM/CAE software developed by Dassault Systèmes, France. This textbook is based on CATIA V5-6R2014. Users of earlier releases can use this book with minor modifications. We provide files for exercises via our website. All files are in CATIA V5R20 so readers can open the files using later releases of CATIA V5. It is assumed that readers of this textbook have no prior experience in using CATIA V5 for modeling 3D parts. This textbook is suitable for anyone interested in learning 3D modeling using CATIA V5. Each chapter deals with the major functions of creating 3D features using simple examples and step by step self-paced exercises. Additional drawings of 3D parts are provided at the end of each chapter for further self exercises. The final exercises are expected to be completed by readers who have fully understood the content and completed the exercises in each chapter. Topics covered in this textbook - Chapter 1: Basic component of CATIA V5 software, options and mouse operation. - Chapter 2: Basic step by step modeling process of CATIA V5. - Chapter 3 through 6: Creating sketches and sketch based features. - Chapter 7: Usage of reference elements to create complex 3D geometry. - Chapter 8: Dress-up features such as fillet, chamfer, draft and shell. - Chapter 9: Modification of 3D parts to take advantage of parametric modeling concepts. - Chapter 10: Creating complex 3D parts by creating multiple bodies and applying boolean operations. - Chapter 11: Copying or moving geometrical bodies. - Chapter 12: Advanced functions in creating a solid part such as a rib, stiffener and multi-sections solid. - Chapter 13: Usage of formulas. - Chapter 14 and 15: Constructing assembly structures and creating or modifying 3D parts in the context of assembly. - Chapter 16 and 17: Creating drawings for parts or assemblies. Automate complex tasks and processes with PowerShell scripts. This amazing book teaches you how to write, test, and organize high-quality, reusable scripts for Windows, Linux, and cloud-based systems. In Learn PowerShell Scripting in a Month of Lunches, Second Edition you'll learn: Setting up a reliable scripting environment Designing functions and scripts Effective pipeline usage Scripting and security Dealing with errors and bugs Source control with git Sharing and publishing scripts Professional-grade scripting practices Learn PowerShell Scripting in a Month of Lunches, Second Edition takes you beyond command-line PowerShell and opens up the amazing world of scripting and automation. In just 27 bite-sized lessons, you'll learn to write scripts that can eliminate repetitive manual tasks, create custom reusable tools, and build effective pipelines and workflows. This revised second edition is fully updated to PowerShell's latest version, including hands-on examples that perfectly demonstrate modern PowerShell's cross-platform applications. About the technology Microsoft's PowerShell language lets you write scripts to control nearly every aspect of Windows. Just master a few straightforward scripting skills, and you'll save yourself from hours of tedious tasks. The lunch hours you spend learning PowerShell scripting will quickly pay you back with days of saved time! About the book Learn PowerShell Scripting in a Month of Lunches teaches you to create effective automation scripts and tools with PowerShell. Its 27 bite-size lessons cover instantly useful techniques for writing efficient code, finding

and squashing bugs, organizing your scripts into libraries, and much more. This revised second edition of the bestselling original has been fully upgraded to the latest version of PowerShell. It's full of exciting new examples that go beyond Windows scripting and show you how you can use PowerShell to automate Linux, and macOS environments. About the reader For help desk technicians, DevOps engineers, and other IT Pros interested in scripting. Basic knowledge of PowerShell required. This book is the perfect follow-on guide to Learn PowerShell in a Month of Lunches, Fourth Edition. About the author James Petty is CEO of PowerShell.org and The DevOps Collective, and a Microsoft MVP. Don Jones is a PowerShell MVP, speaker, and trainer who has written dozens of books on information technology topics. Jeffery Hicks is a PowerShell MVP and an independent consultant, trainer, and author. Would you order a multi-course gourmet buffet and just eat salad? If you have a TI-83 Plus graphing calculator, you have a veritable feast of features and functions at your fingertips, but chances are you don't take full advantage of them. This friendly guide will help you explore your TI-83 Plus Graphing Calculator and use it for all it's worth, and that's a lot. With easy-to-follow, step-by-step instructions plus screen shots, TI-83 Plus Graphing Calculator For Dummies shows you how to: Perform basic arithmetic operations Use Zoom and panning to get the best screen display Use all the functions in the Math menu, including the four submenus: MATH, NUM, CPS, and PRB Use the fantastic Finance application to decide whether to lease or get a loan and buy, calculate the best interest, and more Graph and analyze functions by tracing the graph or by creating a table of functional values, including graphing piecewise-defined and trigonometric functions Explore and evaluate functions, including how to find the value, the zeros, the point of intersection of two functions, and more Draw on a graph, including line segments, circles, and functions, write text on a graph, and do freehand drawing Work with sequences, parametric equations, and polar equations Use the Math Probability menu to evaluate permutations and combinations Enter statistical data and graph it as a scatter plot, histogram, or box plot, calculate the median and quartiles, and more Deal with matrices, including finding the inverse, transpose, and determinant and using matrices to solve a system of linear equations Once you discover all you can do with your TI-83 Plus Graphing Calculator, you'll find out how to make it do more! This guide shows you how to download and install the free TI Connect software to connect your calculator to your computer, and how to link it to other calculators and transfer files. It shows you how to help yourself to more than 40 applications you can download from the TI Web site, and most of them are free. You can choose from Advanced Finance, CellSheet, that turns your calculator into a spread sheet, NoteFolio that turns it into a word processor, Organizer that lets you schedule events, create to-do lists, save phone numbers and e-mail addresses, and more. Get this book and discover how your TI-83 Plus Graphing Calculator can solve all kinds of problems for you. A step-by-step guide that will help you manage data in a relational database using SQL with ease Key Features a- Understand the concepts related to relational databases. a- Learn how to install MariaDB and MySQL on Windows, Linux and tools to access it. a- Learn how to connect Python and Pandas to MySQL/MariaDB. Description This book starts with the concepts in RDBMS (Relational Database Management Systems) and SQL (Structured Query Language). The first few chapters cover the definitions and a brief explanation of all the important concepts. They also cover the installation of MariaDB and MySQL on Windows and Raspberry Pi, as well as the setup of various tools used to connect to MySQL and MariaDB server processes. We will also understand how to install sample schemas and how to use basic SQL queries. Then we move on to the SELECT query in detail. The book explores the data retrieval aspect of SQL queries in detail with the WHERE clause and NULL handling in detail. The book also explores the functions available in MySQL. Those are single row and group functions. Then we explore how to combine the data from multiple sources. The technique is known as Joins, and we will learn ANSI style and the old-style syntax

for all the types of Joins. The last part explores the DDL and DMLs in depth. We also learn the concepts of Transactions and Constraints. The book explores how we can run the SQL queries from a Python 3 program and load a pandas DataFrame with the data from a table in a schema in the MySQL database. What will you learn a- Understand the basics of MySQL and MariaDB. a- Get familiar with MySQL Arithmetic Operators, DDL, DML, DCL & TCL commands. a- Understand the concept of Single-Row Functions and Group Functions in detail. a- Retrieve data from multiple sources using the Joins. Who this book is for This book is designed for beginners as well as professionals alike. The book will also be useful to Data Scientists, Data Analysts, Database Administrators, and Data Engineers. Table of Contents 1. Introduction and Installation 2. Getting Started with MySQL 3. Getting Started with SQL Queries 4. The WHERE clause in detail 5. Single Row Functions 6. Group Functions 7. Joins in MySQL 8. Subqueries 9. DDL, DML, and Transactions 10. Views 11. Python 3, MySQL, and Pandas About the Author Ashwin is an experienced veteran who, for the past 25 years, has been working with STEM (Science, Technology, Engineering, and Mathematics). In his career, Ashwin has worked for more than 7 years as an employee for various IT companies and Software Product Companies. He has written more than 2 dozen books on Arduino, Python programming, Computer Vision, IoT, databases, and other popular topics with BPB and other international publications. He has also reviewed many other technical books. He also creates courses for BPB and other platforms and teaches to 60000 students online. He has been working as a freelancer since 2017. He got his first taste in writing in 2015 when he wrote his first book on Raspberry Pi. In his free time, Ashwin makes videos for his Youtube channel, which has 10000 subscribers now. Outside work, Ashwin volunteers his spare time as a STEM Ambassador, helping, coaching, and mentoring young people in taking up careers in technology. Your Blog links: <https://www.youtube.com/ashwinpajankar> Your LinkedIn Profile: <https://www.linkedin.com/in/ashwinpajankar/> Maximize the power of Excel 2013 formulas with this must-have Excel reference John Walkenbach, known as "Mr. Spreadsheet," is a master at deciphering complex technical topics and Excel formulas are no exception. This fully updated book delivers more than 800 pages of Excel 2013 tips, tricks, and techniques for creating formulas that calculate, developing custom worksheet functions with VBA, debugging formulas, and much more. Demonstrates how to use all the latest features in Excel 2013 Shows how to create financial formulas and tap into the power of array formulas Serves as a guide to using various lookup formulas, working with conditional formatting, and developing custom functions Shares proven solutions for handling typical (and not-so-typical) Excel formula challenges Includes links to the "Mr. Spreadsheet" website, which contains all the templates and worksheets used in the book, plus access to John Walkenbach's award-winning Power Utility Pak. From charts to PivotTables and everything in between, Excel 2013 Formulas is your formula for Excel success. This book includes over 500 most challenging exercises and problems in calculus. Topical problems and exercises are discussed on set theory, numbers, functions, limits and continuity, derivative, integral calculus, Rolle's theorem, mean value theorem, optimization problems, sequences and series. All the seven chapters recall important definitions, theorems and concepts, making this book immensely valuable to undergraduate students of engineering, mathematics, statistics, computer science and basic sciences. Fully unleash your scripting powers and capabilities with PowerShell KEY FEATURES ? PowerShell administration fundamentals. ? Advanced scripting and automation. ? Enterprise and cloud administration. DESCRIPTION PowerShell is a powerful scripting language, automation framework and command-line shell developed by Microsoft that is built on the .NET framework. It is an essential tool because it allows system administrators and developers to automate and optimize complex administrative tasks across multiple systems efficiently. PowerShell's deep integration with Windows and other Microsoft products makes it an invaluable tool for administrating, managing

and optimizing Windows environments. Designed as a cookbook, this book enables readers to expand and build upon their current PowerShell knowledge and skillset. Topics covered in detail include creating PowerShell unit tests using Pester, managing and administrating Azure and AWS cloud services, remote script execution, Active Directory management, PowerShell desired state configuration and more. Each chapter includes recipes that delves into the topics, accompanied by code examples and walkthroughs. After reading this book, readers would have gained the knowledge and skills that will enable them to build better and more advanced scripts and applications while also understanding key principles of automation and optimization. This will also aid the readers to streamline processes and enhance administrative tasks more efficiently using PowerShell.

WHAT YOU WILL LEARN

- Develop advanced PowerShell functions, classes, and scripts with sophisticated flow control.
- Manage errors effectively, including custom error classes, in scripts and background jobs.
- Securely handle remote sessions using PowerShell remoting for enhanced management.
- Utilize Pester for unit testing and mocking dependencies, ensuring script reliability.
- Administer Active Directory objects and cloud services like Azure and AWS, including Microsoft 365 applications.
- Build GUI applications and Windows services from PowerShell scripts with SAPIEN PowerShell studio IDE.

WHO THIS BOOK IS FOR This book is intended for developers and system administrators with a novice or intermediate understanding of PowerShell who are looking to advance their skills.

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Learn JavaScript Basics - A Brief Guide Summary Here's your chance to learn from the best in the business. PowerShell Deep Dives is a trove of essential techniques, practical guidance, and the expert insights you earn only through years of experience. Editors Jeffery Hicks, Richard Siddaway, Oisin Grehan, and Aleksandar Nikolic hand-picked the 28 chapters in the book's four parts: Administration, Scripting, Development, and Platforms. About the Technology PowerShell has permanently changed Windows administration. This powerful scripting and automation tool allows you to control virtually every aspect of Windows and most Microsoft servers like IIS and SQL Server. Here's your chance to learn from the best in the business. About this Book PowerShell Deep Dives is a trove of essential techniques and practical guidance. It is rich with insights from experts who won them through years of experience. The book's 28 chapters, grouped in four parts (Administration, Scripting, Development, and Platforms), were hand-picked by four section editors: Jeffery Hicks, Richard Siddaway, Oisin Grehan, and Aleksandar Nikolic. Whether you're just getting started with PowerShell or you already use it daily, you'll find yourself returning to this book over and over. What's Inside

Managing systems through a keyhole

- The Ten Commandments of PowerShell scripting
- Scalable scripting for large datasets
- Adding automatic remoting
- Provisioning web servers and websites automatically to IIS

8 And 23 more fantastic chapters

Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Authors/Editors Jeffery Hicks, Richard Siddaway, Oisin Grehan, and Aleksandar Nikolic are joined by PowerShell experts Chris Bellee, Bartek Bielawski, Robert C. Cain, Jim Christopher, Adam Driscoll, Josh Gavant, Jason Helmick, Don Jones, Ashley McGlone, Jonathan Medd, Ben Miller, James O'Neill, Arnaud Petitjean, Vadims Podans, Karl Prosser, Boe Prox, Matthew Reynolds, Mike Robbins, Donabel Santos, Will Steele, Trevor Sullivan, and Jeff Wouters.

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