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Alaskan artist Loren's life explodes into a fight for survival after she and her Aleut realtor friend Belle helicopter to a remote lodge for sale on the Alaska Peninsula. A bomb detonated by drug runners blows them into a fiord where Loren and Belle, injured and alone, must rely on wilderness skills to escape the ocean, claw through forests along rugged mountains, evade Kodiak brown bears, and fend off wolves as they battle to stay alive. Desperate to get home, the pair take refuge in a cave only to discover it's an active missile site traded to Russia by someone in the US government. The final battle takes place in the legendary Shelikof Strait. Experiencing the beauty and unpredictability of wild Alaska, being pulled into the lives of two resourceful young women and a chopper pilot who refuse to give up, makes for an entertaining adventure story that delivers.

Computational Photography combines plentiful computing, digital sensors, modern optics, actuators, probes, and smart lights to escape the limitations of traditional film cameras and enables novel imaging applications. This book provides a practical guide to topics in image capture and manipulation methods for generating compelling pictures for graphics, special effects, scene comprehension, and art. The computational techniques discussed cover topics in exploiting new ideas in manipulating optics, illumination, and sensors at time of capture. In addition, the authors describe sophisticated reconstruction procedures from direct and indirect pixel measurements that go well beyond the traditional digital darkroom experience.

This new edition of Friedman's landmark book explains the flattening of the world better than ever- and takes a new measure of the effects of this change on each of us.

An in-depth look into Mac OS X and iOS kernels Powering Macs, iPhones, iPads and more, OS X and iOS are becoming ubiquitous. When it comes to documentation, however, much of them are shrouded in mystery. Cocoa and Carbon, the application frameworks, are neatly described, but system programmers find the rest lacking. This indispensable guide illuminates the darkest corners of those systems, starting with an architectural overview, then drilling all the way to the core. Provides you with a top down view of OS X and iOS Walks you through the phases of system startup—both Mac (EFI) and mobile (iBoot) Explains how processes, threads, virtual memory, and filesystems are maintained Covers the security architecture Reviews the internal APIs used by the system—BSD and Mach Dissects the kernel, XNU, into its sub components: Mach, the BSD Layer, and I/O kit, and explains each in detail Explains the inner workings of device drivers From architecture to implementation, this book is essential reading if you want to get serious about the internal workings of Mac OS X and iOS.

- Presents an innovative, simple and easy to consult approach in the field of diagnostic imaging and interpreting dental radiographs - Covers topics on implant imaging and forensic dental radiology to facilitate the diagnosis and treatment of a number of maxillofacial disorders - Enable the practitioners to boost confidence and remove fears of conducting dental procedures - Gives an eminently readable comprehensive text with high quality illustrations explaining intricacies of radiological procedures with basic principles and interpretation of conventional radiographic images including advance modalities like CT, MRI for providing guidance about techniques to interpret images and differentiate them from normal anatomic landmarks

This is the foremost guide to hydraulically designing sprinkler systems for commercial and residential buildings. Sprinkler Hydraulics, Third Edition includes the latest developments in automatic sprinkler design, as well as going beyond the NFPA 13 Standard to explain everything needed to know to professionally design a system. Sprinkler Hydraulics, Third Edition explains flow phenomena to help the reader evaluate calculated sprinkler systems. Starting with a general discussion of the mathematics involved, the discussion proceeds to define sprinkler density, including several examples which explain how to determine discharge areas. • Includes the latest developments in automatic sprinkler design, as well as going beyond the NFPA 13 Standard to explain everything needed to know to professionally design a system; • Starting with a general discussion of the mathematics involved, the discussion proceeds to define sprinkler density, including several examples which explain how to determine discharge areas; • Explains flow phenomena to help the reader evaluate calculated sprinkler systems.

This book serves as a launchpad for learning more about the Internet and cybersecurity. The information is designed to help you understand the different forms of hacking and what you can do to prevent being hacked.

The Chromebook Classroom gives you a fast, clear road map for turning a new fleet of Chromebooks into rich learning tools for a single classroom or an entire district! The Chromebook Classroom is the perfect companion for educators just getting started with Chromebooks - or looking for new ways to boost their students' learning through technology.

Learn how to process and analysis data using Python KEY FEATURES - The book has theories explained elaborately along with Python code and corresponding output to support the theoretical explanations. The Python codes are provided with step-by-step comments to explain each instruction of the code. - The book is not just dealing with the background mathematics alone or only the programs but beautifully correlates the background mathematics to the theory and then finally translating it into the programs. - A rich set of chapter-end exercises are provided, consisting of both short-answer questions and long-answer questions. DESCRIPTION This book introduces the fundamental concepts of Data Science, which has proved to be a major game-changer in business solving problems. Topics covered in the book include fundamentals of Data Science, data preprocessing, data plotting and visualization, statistical data analysis, machine learning for data analysis, time-series analysis, deep learning for Data Science, social media analytics, business analytics, and Big Data analytics. The content of the book describes the fundamentals of each of the Data Science related topics together with illustrative examples as to how various data analysis techniques can be implemented using different tools and libraries of Python programming language. Each chapter contains numerous examples and illustrative output to explain the important basic concepts. An appropriate number of questions is presented at the end of each chapter for self-assessing the conceptual understanding. The references presented at the end of every chapter will help the readers to explore more on a given topic. WHAT WILL YOU LEARN Perform processing on data for making it ready for visual plot and understand the pattern in data over time. Understand what machine learning is and how learning can be incorporated into a program. Know how tools can be used to perform analysis on big data using python and other standard tools. Perform social media analytics, business analytics, and data analytics on any data of a company or organization. WHO THIS BOOK IS FOR The book is for readers with basic programming and mathematical skills. The book is for any engineering graduates that wish to apply data science in their projects or wish to build a career in this direction. The book can be read by anyone who has an interest in data analysis and would like to explore more out of interest or to apply it to certain real-life problems. TABLE OF CONTENTS 1. Fundamentals of Data Science 2. Data Preprocessing 3. Data Plotting and Visualization 4. Statistical Data Analysis 5. Machine Learning for Data Science 6. Time-Series Analysis 7. Deep Learning for Data Science 8. Social Media Analytics 9. Business Analytics 10. Big Data Analytics

This book is for those who want to get their laser printer up and running fast while saving money. The author covers all of today's laser and LED printers, giving readers the practical information and guidance they need to perform their own repairs. Step-by-step troubleshooting flowcharts make it easy to identify the cause of particular problems and perform necessary repairs.

Deploy, set up, and deliver network services with Windows Server 2019, and prepare for the MTA 98-365 exam Key Features Get started with server installation, performance monitoring, and server maintenance Develop the skills necessary to manage an enterprise environment Implement networking and security best practices in your Windows Server environment Book Description Windows Server

2019 is the server operating system introduced by Microsoft as part of the Windows NT family of operating systems, developed concurrently with Windows 10. This book will not only get you started with Windows Server 2019, but will also help you prepare for the MTA 98-365 exam. With step-by-step instructions and easy-to-understand graphics, you will become well-versed with the roles, features, and functions of Windows Server 2019. Starting with the installation process, upgrades, and basic configuration, you will move on to explore roles and features such as Active Directory, Hyper-V, remote access, storage, and printers. The book then takes you through maintenance and troubleshooting tasks to guide you in efficiently managing Windows Server 2019. In addition, it covers Windows Server 2019 best practices using real-world examples. Complete with questionnaires, and detailed answers at the end of the book, you can test your understanding of the concepts covered in each chapter. By the end of this book, you will be equipped with the knowledge you need to troubleshoot, update, and maintain servers so as to ensure business continuity. What you will learn Grasp the fundamentals of Windows Server 2019 Understand how to deploy Windows Server 2019 Discover Windows Server post-installation tasks Add roles to your Windows Server environment Apply Windows Server 2019 GPOs to your network Delve into virtualization and Hyper-V concepts Explore ways to tune, maintain, update, and troubleshoot Windows Server 2019 Study relevant concepts in preparation for the MTA 98-365 exam Who this book is for If you are a system administrator or an IT professional who wants to deploy and configure Windows Server 2019, this book is for you. You can also use this as a reference guide for the MTA: Windows Server Administration Fundamentals: 98-365 exam.

This student-friendly text on the current economic issues particular to engineering covers the topics needed to analyze engineering alternatives. Students use both hand-worked and spreadsheet solutions of examples, problems and case studies. In this edition the options have been increased with an expanded spreadsheet analysis component, twice the number of case studies, and virtually all new end-of-chapter problems. The chapters on factor derivation and usage, cost estimation, replacement studies, and after-tax evaluation have been heavily revised. New material is included on public sector projects and cost estimation. A reordering of chapters puts the fundamental topics up front in the text. Many chapters include a special set of problems that prepare the students for the Fundamentals of Engineering (FE) exam. This text provides students and practicing professionals with a solid preparation in the financial understanding of engineering problems and projects, as well as the techniques needed for evaluating and making sound economic decisions. Distinguishing characteristics include learning objectives for each chapter, an easy-to-read writing style, many solved examples, integrated spreadsheets, and case studies throughout the text. Graphical cross-referencing between topics and quick-solve spreadsheet solutions are indicated in the margin throughout the text. While the chapters are progressive, over three-quarters can stand alone, allowing instructors flexibility for meeting course needs. A complete online learning center (OLC) offers supplemental practice problems, spreadsheet exercises, and review questions for the the Fundamentals of Engineering (FE) exam.

Whether you've used older versions of this popular program or have never processed a single word, this hands-on guide gets you going with the latest version of Microsoft Word. In no time, you'll begin editing, formatting, proofing, and dressing up your Word documents like a pro. In this leading book about the world's number one word processing application, Dan Gookin talks about using Microsoft Word in friendly, easy-to-follow terms. Focusing on the needs of the beginning Word user, it provides everything you need to know about Word?without any painful jargon. Inside: Discover useful keyboard shortcuts Create and edit text with ease Apply fancy formatting Build your own templates Mix in graphics and tables Juggle multiple documents Review edits and add comments Master the art of mail merge Suddenly your Web server becomes unavailable. When you investigate, you realize that a flood of packets is surging into your network. You have just become one of the hundreds of thousands of victims of a denial-of-service attack, a pervasive and growing threat to the Internet. What do you do? Internet Denial of Service sheds light on a complex and fascinating form of computer attack that impacts the confidentiality, integrity, and availability of millions of computers worldwide. It tells the network administrator, corporate CTO, incident responder, and student how DDoS attacks are prepared and executed, how to think about DDoS, and how to arrange computer and network defenses. It also provides a suite of actions that can be taken before, during, and after an attack. Inside, you'll find comprehensive information on the following topics How denial-of-service attacks are waged How to improve your network's resilience to denial-of-service attacks What to do when you are involved in a denial-of-service attack The laws that apply to these attacks and their implications How often denial-of-service attacks occur, how strong they are, and the kinds of damage they can cause Real examples of denial-of-service attacks as experienced by the attacker, victim, and unwitting accomplices The authors' extensive experience in handling denial-of-service attacks and researching defense approaches is laid out clearly in practical, detailed terms.

Make the most of your iPhone with this witty, authoritative, full-color guide to iOS 14. Apple has sold over 2.2 billion iPhones—but not one has come with a user guide. And with each annual update of iOS, Apple piles on more and more features; at this moment, the Settings app alone bristles with over 1,000 options. In iPhone Unlocked, the #1 bestselling iPhone author David Pogue offers a curated guide to the essential and useful features of the new iPhone 12 family—and all other models that can run the iOS 14 software. A former New York Times tech columnist and bestselling how-to author, no one is better equipped than Pogue to offer expert instruction to this complicated iPhone. With his trademark humor, crystal-clear prose, and 300 full-color illustrations, Pogue guides readers through everything in iOS 14: Home-screen widgets, the new App Library, the all-new Translate app, the redesigned Search, FaceTime, and calling screens, and much more. Whether you're a new iPhone user or a seasoned veteran, iPhone Unlocked is a gorgeous, authoritative, all-in-one master class on all things iPhone.

Make the most of your Mac with this witty, authoritative guide to macOS Big Sur. Apple updates its Mac operating system every year, adding new features with every revision. But after twenty years of this updating cycle without a printed user guide to help customers, feature bloat and complexity have begun to weigh down the works. For thirty years, the Mac faithful have turned to David Pogue's Mac books to guide them. With Mac Unlocked, New York Times bestselling author Pogue introduces readers to the most radical Mac software redesign in Apple history, macOS Big Sur. Beginning Mac users and Windows refugees will gain an understanding of the Mac philosophy; Mac veterans will find a concise guide to what's new in Big Sur, including its stunning visual and sonic redesign, the new Control Center for quick settings changes, and the built-in security auditing features. With a 300 annotated illustrations, sparkling humor, and crystal-clear prose, Mac Unlocked is the new gold-standard guide to the Mac.

This Independence Day edition of The World is Flat 3.0 includes an an exclusive preview of That Used to Be Us: How America Fell Behind in the World It Invented and How We Can Come Back, by Thomas L. Friedman and Michael Mandelbaum, on sale September 5th, 2011. A New Edition of the Phenomenal #1 Bestseller "One mark of a great book is that it makes you see things in a new way, and Mr. Friedman certainly succeeds in that goal," the Nobel laureate Joseph E. Stiglitz wrote in The New York Times reviewing The World Is Flat in 2005. In this new edition, Thomas L. Friedman includes fresh stories and insights to help us understand the flattening of the world. Weaving new information into his overall thesis, and answering the questions he has been most frequently asked by parents across the country, this third edition also includes two new chapters--on how to be a political activist and social entrepreneur in a flat world; and on the more troubling question of how to manage our reputations and privacy in a world where we are all becoming publishers and public figures. The World Is Flat 3.0 is an essential update on globalization, its opportunities for individual empowerment, its achievements at lifting millions out of poverty, and its drawbacks--environmental, social, and political, powerfully illuminated by the Pulitzer Prize--winning author of The Lexus and the Olive Tree.

This book covers in detail the various aspects of joining materials to form parts. A conceptual overview of rapid prototyping and layered manufacturing is given, beginning with the fundamentals so that

readers can get up to speed quickly. Unusual and emerging applications such as micro-scale manufacturing, medical applications, aerospace, and rapid manufacturing are also discussed. This book provides a comprehensive overview of rapid prototyping technologies as well as support technologies such as software systems, vacuum casting, investment casting, plating, infiltration and other systems. This book also: Reflects recent developments and trends and adheres to the ASTM, SI, and other standards Includes chapters on automotive technology, aerospace technology and low-cost AM technologies Provides a broad range of technical questions to ensure comprehensive understanding of the concepts covered

Unique in its integration of individual topics to achieve a full-system approach, this book addresses all the aspects essential for industrial inkjet printing. After an introduction listing the industrial printing techniques available, the text goes on to discuss individual topics, such as ink, printheads and substrates, followed by metrology techniques that are required for reliable systems. Three iteration cycles are then described, including the adaptation of the ink to the printhead, the optimization of the ink to the substrate and the integration of machine manufacturing, monitoring, and data handling, among others. Finally, the book summarizes a number of case studies and success stories from selected areas, including graphics, printed electronics, and 3D printing as well a list of ink suppliers, printhead manufacturers and integrators. Practical hints are included throughout for a direct hands-on experience. Invaluable for industrial users and academics, whether ink developers or mechanical engineers, and working in areas ranging from metrology to intellectual property.

The fifth edition of "Numerical Methods for Engineers" continues its tradition of excellence. Instructors love this text because it is a comprehensive text that is easy to teach from. Students love it because it is written for them--with great pedagogy and clear explanations and examples throughout. The text features a broad array of applications, including all engineering disciplines. The revision retains the successful pedagogy of the prior editions. Chapra and Canale's unique approach opens each part of the text with sections called Motivation, Mathematical Background, and Orientation, preparing the student for what is to come in a motivating and engaging manner. Each part closes with an Epilogue containing sections called Trade-Offs, Important Relationships and Formulas, and Advanced Methods and Additional References. Much more than a summary, the Epilogue deepens understanding of what has been learned and provides a peek into more advanced methods. Approximately 80% of the end-of-chapter problems are revised or new to this edition. The expanded breadth of engineering disciplines covered is especially evident in the problems, which now cover such areas as biotechnology and biomedical engineering. Users will find use of software packages, specifically MATLAB and Excel with VBA. This includes material on developing MATLAB m-files and VBA macros.

This book is for both novice developers in general and experienced Spring developers. It will teach you how to override Spring Boot's opinions and frees you from the need to define complicated configurations.

Build on your existing programming skills and upskill to professional-level C# programming. Summary In Code Like A Pro in C# you will learn: Unit testing and test-driven development Refactor a legacy .NET codebase Principles of clean code Essential backend architecture skills Query and manipulate databases with LINQ and Entity Framework Core Critical business applications worldwide are written in the versatile C# language and the powerful .NET platform, running on desktops, cloud systems, and Windows or Linux servers. Code Like a Pro in C# makes it easy to turn your existing abilities in C# or another OO language (such as Java) into practical C# mastery. There's no "Hello World" or Computer Science 101 basics—you'll learn by refactoring an out-of-date legacy codebase, using new techniques, tools, and best practices to bring it up to modern C# standards. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology You know the basics, now get ready for the next step! Pro-quality C# code is efficient, clean, and fast. Whether you're building user-facing business applications or writing data-intensive backend services, the experience-based, practical techniques in this book will take your C# skills to a new level. About the book Code Like a Pro in C# teaches you to how write clean C# code that's suitable for enterprise applications. In this book, you'll refactor a legacy codebase by applying modern C# techniques. You'll explore tools like Entity Framework Core, design techniques like dependency injection, and key practices like testing and clean coding. It's a perfect path to upgrade your existing C# skills or shift from another OO language into C# and the .NET ecosystem. What's inside Unit testing and test-driven development Refactor a legacy .NET codebase Principles of clean code Query and manipulate databases with LINQ and Entity Framework Core About the reader For developers experienced with object-oriented programming. No C# experience required. About the author Jort Rodenburg is a software engineer who has taught numerous courses on getting up to speed with C# and .NET. Table of Contents PART 1 USING C# AND .NET 1 Introducing C# and .NET 2 .NET and how it compiles PART 2 THE EXISTING CODEBASE 3 How bad is this code? 4 Manage your unmanaged resources! PART 3 THE DATABASE ACCESS LAYER 5 Setting up a project and database with Entity Framework Core PART 4 THE REPOSITORY LAYER 6 Test-driven development and dependency injection 7 Comparing objects 8 Stubbing, generics, and coupling 9 Extension methods, streams, and abstract classes PART 5 THE SERVICE LAYER 10 Reflection and mocks 11 Runtime type checking revisited and error handling 12 Using IEnumerable and yield return PART 6 THE CONTROLLER LAYER 13 Middleware, HTTP routing, and HTTP responses 14 JSON serialization/deserialization and custom model binding

Carbon Capture and Storage, Second Edition, provides a thorough, non-specialist introduction to technologies aimed at reducing greenhouse gas emissions from burning fossil fuels during power generation and other energy-intensive industrial processes, such as steelmaking. Extensively revised and updated, this second edition provides detailed coverage of key carbon dioxide capture methods along with an examination of the most promising techniques for carbon storage. The book opens with an introductory section that provides background regarding the need to reduce greenhouse gas emissions, an overview of carbon capture and storage (CCS) technologies, and a primer in the fundamentals of power generation. The next chapters focus on key carbon capture technologies, including absorption, adsorption, and membrane-based systems, addressing their applications in both the power and non-power sectors. New for the second edition, a dedicated section on geological storage of carbon dioxide follows, with chapters addressing the relevant features, events, and processes (FEP) associated with this scenario. Non-geological storage methods such as ocean storage and storage in terrestrial ecosystems are the subject of the final group of chapters. A chapter on carbon dioxide transportation is also included. This extensively revised and expanded second edition will

be a valuable resource for power plant engineers, chemical engineers, geological engineers, environmental engineers, and industrial engineers seeking a concise, yet authoritative one-volume overview of this field. Researchers, consultants, and policy makers entering this discipline also will benefit from this reference. Provides all-inclusive and authoritative coverage of the major technologies under consideration for carbon capture and storage Presents information in an approachable format, for those with a scientific or engineering background, as well as non-specialists Includes a new Part III dedicated to geological storage of carbon dioxide, covering this topic in much more depth (9 chapters compared to 1 in the first edition) Features revisions and updates to all chapters Includes new sections or expanded content on: chemical looping/calcium looping; life-cycle GHG assessment of CCS technologies; non-power industries (e.g. including pulp/paper alongside ones already covered); carbon negative technologies (e.g. BECCS); gas-fired power plants; biomass and waste co-firing; and hydrate-based capture

This updated and expanded edition of Creative Homeowner's comprehensive, bestselling plumbing how-to book covers the most up-to-date products and techniques. Strong emphasis in the how-to information is placed on doing things correctly, so all of the projects use only code-compliant techniques. Ultimate Guide: Plumbing, 4th Edition prepares the do-it-yourselfer to handle any plumbing task in the home, from replacing a washer in a leaky faucet to renovating a bathroom. It also gives readers an overview of a house's plumbing system, including supply, waste, and vent piping, and explains the basic physics that keep everything working well. In addition to learning how to plan and complete each project, readers learn how to spot and improve outdated or dangerous techniques and materials in their home plumbing system.

In *Ethereal Queer*, Amy Villarejo offers a historically engaged, theoretically sophisticated, and often personal account of how TV representations of queer life have changed as the medium has evolved since the 1950s. Challenging the widespread view that LGBT characters did not make a sustained appearance on television until the 1980s, she draws on innovative readings of TV shows and network archives to reveal queer television's lengthy, rich, and varied history. Villarejo goes beyond concerns about representational accuracy. She tracks how changing depictions of queer life, in programs from *Our Miss Brooks* to *The L Word*, relate to transformations in business models and technologies, including modes of delivery and reception such as cable, digital video recording, and online streaming. In so doing, she provides a bold new way to understand the history of television.

Includes Part 1, Number 2: Books and Pamphlets, Including Serials and Contributions to Periodicals (July - December)

InfoWorld

This book is a tutorial guide for new users that aims to help you understand the basics of and become accomplished with the use of R for quantitative finance. If you are looking to use R to solve problems in quantitative finance, then this book is for you. A basic knowledge of financial theory is assumed, but familiarity with R is not required. With a focus on using R to solve a wide range of issues, this book provides useful content for both the R beginner and more experience users.

Obsidian (at obsidian.md on the web) is a new, free app for helping you build a "second brain" - a place for your ideas to arrive, develop, and stay for the long haul. The Obsidian app is built on open standards that ensures that your second brain will always be your own. It works with familiar files and folders that stay local on your disk, ensuring privacy and longevity. Yes, it's free. This book provides an introduction to the Obsidian app and walks you through a handful of key concepts to help you master the software. And the book presents several techniques shared by the wonderful Obsidian user community that will help new and experienced users alike to master this powerful software.

Issues in Contemporary Orthodontics is a contribution to the ongoing debate in orthodontics, a discipline of continuous evolution, drawing from new technology and collective experience, to better meet the needs of students, residents, and practitioners of orthodontics. The book provides a comprehensive view of the major issues in orthodontics that have featured in recent debates. A broad variety of topics is covered, including the impact of malocclusion, risk management and treatment, and innovation in orthodontics.

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