

Edwards Quickstart Commissioning Manual

Interferometry and Synthesis in Radio Astronomy
Using Pedagogic Intervention to Cultivate Contextual Lexical Competence in L2
Practical Volumetric Analysis
Credit Management
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Interferometry and Synthesis in Radio Astronomy

Every organization has large amounts of data to store, use, and manage. For most, this quantity is increasing. However, over time, the value of this data changes. How can we map data to an appropriate storage media, so that it can be accessed in a timely manner when needed, retained for as long as required, and disposed of when no longer needed? Information Lifecycle Management (ILM) provides solutions. ILM is the process of managing information—from creation, through its useful life, to its eventual destruction—in a manner that aligns storage costs with the changing business value of information. We can think of ILM as an integrated solution of five IT management and infrastructure components working together: Service management (service levels), content management, workflow management (or process management), storage management, and storage infrastructure. This IBM Redbooks publication will help you understand what ILM is and why it is of value to you in your organization, and provide you with suggested ways to implement it using IBM products.

Using Pedagogic Intervention to Cultivate Contextual Lexical Competence in L2

Challenges to Local Government offers a timely discussion of how local governments have implemented public policies during the last decade. Concentrating on Britain and the United States (but with essays on Scandinavia, France and Canada) the authors document, explain and analyze the implications of these policies for local autonomy, focusing especially upon local economic initiatives.

Practical Volumetric Analysis

The best single-volume guide for anyone responsible for managing credit, risk and customers. Previously published as Credit Management Handbook, the new edition, with a new editor, has been revised to reflect changes in practice and technology and is the set text for the Institute of Credit Management (ICM) examinations.

Credit Management

The basis for the Academy Award®-winning movie! Kidnapped into slavery in 1841, Northup spent 12 years in captivity. This autobiographical memoir represents an exceptionally detailed and accurate description of slave life and plantation society. 7 illustrations. Index.

JavaScript for .NET Developers

Develop a simple, yet fully-functional modern web application using ASP.NET Core MVC, Entity Framework and Angular 5. About This Book Based on the best-selling book ASP.NET Core and Angular 2 Easily build a complete single page application with two of the most impressive frameworks in modern development, ASP.NET Core and Angular Bring together the capabilities and features of both Angular 5 and ASP.NET Core 2 for full stack development Discover a comprehensive approach to building your next web project-From managing data, to application design, through to SEO optimization and security Who This Book Is For This book is for seasoned ASP.NET developers who already know about ASP.NET Core and Angular in general, but want to know more about them and/or understand how to blend them together to craft a production-ready SPA. What You Will Learn Use ASP.NET Core to its full extent to create a versatile backend layer based on RESTful APIs Consume backend APIs with the brand new Angular 5 HttpClient and use RxJS Observers to feed the frontend UI asynchronously Implement an authentication and authorization layer using ASP.NET Identity to support user login with integrated and third-party OAuth 2 providers Configure a web application in order to accept user-defined data and persist it into the database using server-side APIs Secure your application against threats and vulnerabilities in a time efficient way Connect different aspects of the ASP. NET Core framework ecosystem and make them interact with each other for a Full-Stack web development experience In Detail Become fluent in both frontend and backend web development by combining the impressive capabilities of ASP.NET Core 2 and Angular 5 from project setup right through the deployment phase. Full-stack web development means being able to work on both the frontend and backend portions of an application. The frontend is the part that users will see or interact with, while the backend is the underlying engine, that handles the logical flow: server configuration, data storage and retrieval, database interactions, user authentication, and more. Use the ASP.NET Core MVC framework to implement the backend with API calls and server-side routing. Learn how to put the frontend together using top-notch Angular 5 features such as two-way binding, Observables, and Dependency Injection, build the Data Model with Entity Framework Core, style the frontend with CSS/LESS for a responsive and mobile-friendly UI, handle user input with Forms and Validators, explore different authentication techniques, including the support for third-party OAuth2 providers such as Facebook, and deploy the application using Windows Server, SQL Server, and the IIS/Kestrel reverse proxy. Style and approach More than just a technical manual, this guide

takes you through the most important technical facets of developing with these two hugely popular frameworks and then demonstrates how to put those skills into practice. It's a book that recognizes that what's really important is the end product.

Smarter Government

Instant answers to your toughest questions on piping components and systems! It's impossible to know all the answers when piping questions are on the table - the field is just too broad. That's why even the most experienced engineers turn to Piping Handbook, edited by Mohinder L. Nayyar, with contribution from top experts in the field. The Handbook's 43 chapters--14 of them new to this edition--and 9 new appendices provide, in one place, everything you need to work with any type of piping, in any type of piping system: design layout selection of materials fabrication and components operation installation maintenance This world-class reference is packed with a comprehensive array of analytical tools, and illustrated with fully-worked-out examples and case histories. Thoroughly updated, this seventh edition features revised and new information on design practices, materials, practical applications and industry codes and standards--plus every calculation you need to do the job.

Hardening Linux

Introduction to PYTHON 3 (Python Documentation MANUAL Part 1). Python is an easy to learn object-oriented programming language, which combines power with clear syntax. It has modules, classes, exceptions, very high level data types, and dynamic typing. Python is free software. It can be used with GNU (GNU/Linux), Unix, Microsoft Windows and many other systems. This is a printed copy of the official Python documentation from the latest Python 3 distribution. For each copy sold \$1 will be donated to the PYTHON SOFTWARE FOUNDATION by the publisher. This book is part of a new six-part series of Python documentation books. Searching for "Python Documentation Manual" will show all six available books. THE AUTHOR Guido van Rossum, is the inventor of Python. Fred L. Drake, Jr. is the official editor of the Python documentation. ++++ UPDATE: A printing error has occurred with some of the first copies. At any time customers can return defective books to amazon. * The problem HAS BEEN FIXED. ++

Programming Python

JavaFX 8: Introduction by Example shows you how to use your existing Java skills to create graphically exciting client applications with the JavaFX 8 platform. The book is a new and much improved edition of JavaFX 2.0: Introduction by Example, taking you through a series of engaging, fun-to-work examples that bring you up to speed on the major facets of the platform. It will help you to create applications that look good, are fun to use, and that take advantage of the medium to present data of all types in ways that engage the user and lead to increased productivity. Entirely example-based, JavaFX 8: Introduction by Example begins with the fundamentals of installing the software and creating a simple interface. From there, you'll move in progressive steps through the process of developing applications using JavaFX's standard drawing primitives. You'll then explore images, animations, media, and

web. This new edition incorporates the changes resulting from the switch to Java 8 SDK. It covers advanced topics such as custom controls, JavaFX 3D, gesture devices, and embedded systems. Best of all, the book is full of working code that you can adapt and extend to all your future projects. Entirely example-based Filled with fun and practical code examples Covers all that's new in Java 8 relating to JavaFX such as Lambda expressions and Streams Covers gesture devices, 3D display, embedded systems, and other advanced topics

Savings Fitness

JavaFX is a software platform to create and deliver rich Internet applications (RIAs) that can run across a wide variety of devices. JavaFX Essentials will help you to design and build high performance JavaFX 8-based applications that run on a variety of devices. Starting with the basics of the framework, it will take you all the way through creating your first working application to discovering the core and main JavaFX 8 features, then controlling and monitoring your outside world. The examples provided illustrate different JavaFX and Java SE 8 features. This guide is an invaluable tutorial if you are planning to develop and create JavaFX 8 applications to run on a variety of devices and platforms.

Tkinter GUI Application Development Blueprints

Master GUI programming in Tkinter as you design, implement, and deliver ten real-world applications from start to finish About This Book Conceptualize and build state-of-art GUI applications with Tkinter Tackle the complexity of just about any size GUI application with a structured and scalable approach A project-based, practical guide to get hands-on into Tkinter GUI development Who This Book Is For Software developers, scientists, researchers, engineers, students, or programming hobbyists with basic familiarity in Python will find this book interesting and informative. People familiar with basic programming constructs in other programming language can also catch up with some brief reading on Python. No GUI programming experience is expected. What You Will Learn Get to know the basic concepts of GUI programming, such as Tkinter top-level widgets, geometry management, event handling, using callbacks, custom styling, and dialogs Create apps that can be scaled in size or complexity without breaking down the core Write your own GUI framework for maximum code reuse Build apps using both procedural and OOP styles, understanding the strengths and limitations of both styles Learn to structure and build large GUI applications based on Model-View-Controller (MVC) architecture Build multithreaded and database-driven apps Create apps that leverage resources from the network Learn basics of 2D and 3D animation in GUI applications Develop apps that can persist application data with object serialization and tools such as configparser In Detail Tkinter is the built-in GUI package that comes with standard Python distributions. It is a cross-platform package, which means you build once and deploy everywhere. It is simple to use and intuitive in nature, making it suitable for programmers and non-programmers alike. This book will help you master the art of GUI programming. It delivers the bigger picture of GUI programming by building real-world, productive, and fun applications such as a text editor, drum machine, game of chess, media player, drawing application, chat application, screen saver, port scanner, and many more. In every project, you will build on the skills acquired in the previous project and

gain more expertise. You will learn to write multithreaded programs, network programs, database driven programs and more. You will also get to know the modern best practices involved in writing GUI apps. With its rich source of sample code, you can build upon the knowledge gained with this book and use it in your own projects in the discipline of your choice. Style and approach An easy-to-follow guide, full of hands-on examples of real-world GUI programs. The first chapter is a must read as it explains most of the things you need to get started with writing GUI programs with Tkinter. Each subsequent chapter is a stand-alone project that discusses some aspects of GUI programming in detail. These chapters can be read sequentially or randomly depending upon the readers experience with Python.

Piping Handbook

Smarter Government Workbook: A 14-Week Implementation Guide to Governing for Results distills the lessons from Smarter Government into a 14-week plan to achieve strategic performance management.

ASP.NET Core 2 and Angular 5

An informative handbook for network administrators and professionals who use Linux offers practical guidelines on how to test, hack, and find security holes and secure them, explaining how to assess one's system, shut down unnecessary services and access, install filters and firewalls, eliminate unnecessary software, enhance authentication and user identity protocols, monitor network systems, and other important topics. Original. (Intermediate)

Smarter Government Workbook

Python Essential Reference is the definitive reference guide to the Python programming language — the one authoritative handbook that reliably untangles and explains both the core Python language and the most essential parts of the Python library. Designed for the professional programmer, the book is concise, to the point, and highly accessible. It also includes detailed information on the Python library and many advanced subjects that is not available in either the official Python documentation or any other single reference source. Thoroughly updated to reflect the significant new programming language features and library modules that have been introduced in Python 2.6 and Python 3, the fourth edition of Python Essential Reference is the definitive guide for programmers who need to modernize existing Python code or who are planning an eventual migration to Python 3. Programmers starting a new Python project will find detailed coverage of contemporary Python programming idioms. This fourth edition of Python Essential Reference features numerous improvements, additions, and updates: Coverage of new language features, libraries, and modules Practical coverage of Python's more advanced features including generators, coroutines, closures, metaclasses, and decorators Expanded coverage of library modules related to concurrent programming including threads, subprocesses, and the new multiprocessing module Up-to-the-minute coverage of how to use Python 2.6's forward compatibility mode to evaluate code for Python 3 compatibility Improved organization for even faster answers and better usability Updates to reflect modern

Python programming style and idioms Updated and improved example code Deep coverage of low-level system and networking library modules — including options not covered in the standard documentation

The Silicon Empire

Architect and design highly scalable, robust, clean and highly performant applications in .NET Core About This Book Incorporate architectural soft-skills such as DevOps and Agile methodologies to enhance program-level objectives Gain knowledge of architectural approaches on the likes of SOA architecture and microservices to provide traceability and rationale for architectural decisions Explore a variety of practical use cases and code examples to implement the tools and techniques described in the book Who This Book Is For This book is for experienced .NET developers who are aspiring to become architects of enterprise-grade applications, as well as software architects who would like to leverage .NET to create effective blueprints of applications. What You Will Learn Grasp the important aspects and best practices of application lifecycle management Leverage the popular ALM tools, application insights, and their usage to monitor performance, testability, and optimization tools in an enterprise Explore various authentication models such as social media-based authentication, 2FA and OpenID Connect, learn authorization techniques Explore Azure with various solution approaches for Microservices and Serverless architecture along with Docker containers Gain knowledge about the recent market trends and practices and how they can be achieved with .NET Core and Microsoft tools and technologies In Detail If you want to design and develop enterprise applications using .NET Core as the development framework and learn about industry-wide best practices and guidelines, then this book is for you. The book starts with a brief introduction to enterprise architecture, which will help you to understand what enterprise architecture is and what the key components are. It will then teach you about the types of patterns and the principles of software development, and explain the various aspects of distributed computing to keep your applications effective and scalable. These chapters act as a catalyst to start the practical implementation, and design and develop applications using different architectural approaches, such as layered architecture, service oriented architecture, microservices and cloud-specific solutions. Gradually, you will learn about the different approaches and models of the Security framework and explore various authentication models and authorization techniques, such as social media-based authentication and safe storage using app secrets. By the end of the book, you will get to know the concepts and usage of the emerging fields, such as DevOps, BigData, architectural practices, and Artificial Intelligence. Style and approach Filled with examples and use cases, this guide takes a no-nonsense approach to show you the best tools and techniques required to become a successful software architect.

Career Development Across the Lifespan

The Apostles' Creed

Build a simple, yet fully-functional modern web application using .NET Core 3.1,

Entity Framework Core and Angular 9 Key Features Explore the latest edition of the bestselling book ASP.NET Core 2 and Angular 5 Design, build and deploy a Single Page Application or Progressive Web App with ASP.NET Core and Angular Adopt a full stack approach to handle data management, Web APIs, application design, testing, SEO, security and deployment Book Description Learning full stack development calls for knowledge of both frontend and backend web development. By covering the impressive capabilities of ASP.NET Core 3.1 and Angular 9, right from project setup through to the deployment phase, this book will help you to develop your skills effectively. The book will get you started with using the .NET Core framework and Web API Controllers to implement API calls and server-side routing in the backend. Next, you will learn to build a data model with Entity Framework Core and configure it using either a local SQL Server instance or cloud-based data stores such as Microsoft Azure. The book will also help you handle user input with Angular reactive forms and frontend and backend validators for maximum effect. You will later explore the advanced debugging and unit testing features provided by xUnit.net (.NET Core) and Jasmine, as well as Karma for Angular. Finally, you will implement various authentication and authorization techniques with the ASP.NET Core Identity system and the new IdentityServer, as well as deploy your apps on Windows and Linux servers using IIS, Kestrel, and Nginx. By the end of this book, you will be equipped with the skills you need to create efficient web applications using ASP.NET Core and Angular. What you will learn Implement a Web API interface with ASP.NET Core and consume it with Angular using RxJS Observables Create a data model using Entity Framework Core with code-first approach and migrations support Set up and configure a SQL database server using a local instance or a cloud data store on Azure Perform C# and JavaScript debugging using Visual Studio 2019 Create TDD and BDD unit test using xUnit, Jasmine, and Karma Implement authentication and authorization using ASP.NET Identity, IdentityServer4, and Angular API Build Progressive Web Apps and explore Service Workers Who this book is for This book is for experienced ASP.NET developers who already know about ASP.NET Core and Angular and are looking to learn more about them and understand how to use them together to create production-ready Single Page Applications (SPAs) or Progressive Web Applications (PWAs). However, the fully-documented code samples (also available on GitHub) and the step-by-step implementation tutorials make this book easy-to-understand - even for beginners and developers who are just getting started.

Synthesis Imaging in Radio Astronomy

Unity is a powerful game engine. However, producing a performant product requires additional knowledge. This book is a comprehensive introduction to optimization techniques and best practices. By the end of the book you will be able to apply all the major optimization techniques and be able to produce faster and high performant games.

Challenges to Local Government

Measures for Research and Evaluation in the English Language Arts

The theories and techniques that underlie radio interferometry as applied to astronomy and astrometry are discussed in this text. It is intended for graduate students and professionals who wish to use interferometric or synthesis-mapping techniques in astronomy, astrometry or geodesy.

Everyday Technology for Independence and Care

A guide to Python, the object-oriented scripting language, discusses the use of Python in Internet and web programming; address Python's C intergration tools; and features many examples that expand as new topics are introduced. Original. (Intermediate/Advanced)

Credit Management Handbook

"Smarter Government: Governing for Results in the Information Age is about a more effective way to lead that is emerging, enabled by the Information Age. It provides real solutions to real problems using GIS technology and helps develop a management strategy using data that will profoundly change an organization, as successfully implemented by Gov. Martin O'Malley in the state of Maryland"--

Introduction to Mechatronic Design

Introduction to Mechatronic Design is ideal for upper level and graduate Mechatronics courses in Electrical, Computing, or Mechanical & Aerospace Engineering. Unlike other texts on mechatronics that focus on derivations and calculations, Introduction to Mechatronics, 1e, takes a narrative approach, emphasizing the importance of building intuition and understanding before diving into the math. The authors believe that integration is the core of mechatronics and students must have a command of each of the domains to create the balance necessary for successful mechatronic design and devote sections of the book to each area, including mechanical, electrical, and software disciplines, as well as a section on system design and engineering. A robust package of teaching and learning resources accompanies the book.

ASP.NET Core 3 and Angular 9

Focuses on organisational goals and those of other stakeholders and society at large. This book provides an insight into the potential benefits and pitfalls, expectations and concerns of advancing a critical view of HRD in practice. It is intended for lecturers, students and practitioners who are aching for a critical analysis.

Introduction to Python 3

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 pursuing 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.

Bust

This handbook provides a comprehensive, down-to-earth guide to every aspect of managing credit. It guides sellers carefully through the Consumer Credit Act and related operating methods.

Developing Assessments for the Next Generation Science Standards

AAATE 2011. Numbers of the elderly and people with disabilities in our society are growing. Technological solutions have an increasingly important role in supporting this group of individuals in their daily life, to ensure both independence and adequate care. For t

Enterprise Application Architecture with .NET Core

This second edition of Career Counseling Across the Lifespan: Community, School, Higher Education, and Beyond is the latest volume in the Issues in Career Development Series, edited by Drs. Grafton Eliason, Mark Lepore, Jeff Samide, and John Patrick, from California University of Pennsylvania and Clarion University of Pennsylvania. The purpose of Career Development Across the Lifespan is to provide a broad and in-depth look at the field of career development as it applies to individuals involved in all areas of community counseling, school counseling, and higher education. The book will examine some of the field's major theories, themes, approaches, and newest models incorporating chapters from national and international career counseling experts. Specific emphasis is spent examining issues reflective of today's challenges in developing and maintaining a workforce that is diverse, flexible, and efficient. Readers will be provided with an action-based framework built on the best available research. This text book is truly the

culmination of a decade's work, compiling comprehensive studies from four previous volumes and updating key concepts in career counseling with the most contemporary theories and innovations. We examine three primary domains of career counseling throughout all of the developmental stages of the lifespan: community, schools K-12, and higher education. We include a specific focus on career history and theories, to prepare students for both the counseling environment and for national exams leading to certification and licensure, such as the (NCE) National Counseling Exam. We also include cutting edge research on contemporary topics, including such areas as: military careers, life after the military, individuals with disabilities or special needs, career counseling in our current socio-economic environment, and current technologies such as virtual counseling. In addition, we have added case studies and key terms as study guides at the end of each chapter. We are fortunate to include many recognized experts in the field of career counseling. *Career Counseling Across the Lifespan: Community, School, Higher Education, and Beyond* is a comprehensive text, written to address the broad needs of career counselors, educators, and students today.

IT Security Risk Control Management

Michael Likosky examines the continuities and discontinuities between colonial and present-day high tech transnational legal orders. His concern is specifically with the colonial characteristics of the legal order which underpins the global high tech economy. He distinguishes the democratic and human rights rhetoric of this economy from a reality wherein the legal order is often used to reproduce colonial-type relationships. Just as in the colonial period, the expansion of trans-border commerce overlaps with democratic demands and human rights in complex, multifaceted and paradoxical ways. Through a case study looking at Malaysia's Multimedia Super Corridor, a high tech national development plan and foreign direct investment scheme, he examines how the transnational leaders of the high tech economy along with the Malaysian political elite react when human rights problems threaten to derail commercial plans.

Hands-On Application Penetration Testing with Burp Suite

In 2001, Greece saw its application for membership into the Eurozone accepted, and the country sat down to the greatest free lunch in economic history. However, the coming years of global economic prosperity would lead to unrestrained spending, cheap borrowing, and a failure to implement financial reform, leaving the country massively exposed to a financial crisis—which duly struck. In *Bust: Greece, the Euro, and the Sovereign Debt Crisis*, Bloomberg columnist Matthew Lynn explores Greece's spectacular rise and fall from grace and the global repercussions of its financial disaster. Page by page, he provides a thrilling account of the Greek financial crisis, drawing out its origins, how it escalated, and its implications for a fragile global economy. Along the way, Lynn looks at how the Greek contagion has spread like wildfire throughout Europe and explores how government ineptitude as well as financial speculators compounded the problem. Blending financial history, politics, and current affairs, Lynn skillfully tells the story of how one nation rode the wave of economic prosperity and brought a continent, a currency, and, potentially, the global financial system to its knees. Lively,

engaging, and thought provoking, Bust reminds us just how interconnected the world really is.

Python Essential Reference

NFPA 12

Follow step-by-step guidance to craft a successful security program. You will identify with the paradoxes of information security and discover handy tools that hook security controls into business processes. Information security is more than configuring firewalls, removing viruses, hacking machines, or setting passwords. Creating and promoting a successful security program requires skills in organizational consulting, diplomacy, change management, risk analysis, and out-of-the-box thinking. What You Will Learn: Build a security program that will fit neatly into an organization and change dynamically to suit both the needs of the organization and survive constantly changing threats Prepare for and pass such common audits as PCI-DSS, SSAE-16, and ISO 27001 Calibrate the scope, and customize security controls to fit into an organization's culture Implement the most challenging processes, pointing out common pitfalls and distractions Frame security and risk issues to be clear and actionable so that decision makers, technical personnel, and users will listen and value your advice Who This Book Is For: IT professionals moving into the security field; new security managers, directors, project heads, and would-be CISOs; and security specialists from other disciplines moving into information security (e.g., former military security professionals, law enforcement professionals, and physical security professionals)

ILM Library

Do you believe? Today, we're flooded with opinions and ideas. And they all might be interesting, but are they true? Would you die for them? Benjamin Myers re-introduces the Apostles' Creed, helping us to see how difficult and counter-cultural the Creed really is. It doesn't give us sweet, empty words. It's a faith that demands we die so that we might live. In the early church, many converts died for their faith so they needed to have a good idea what they might die for. Early church pastors and theologians used the Apostles' Creed as the essential guide to the basics of the Christian life. The Apostles' Creed has united Christians from different times, different places, and different traditions. The truths proclaimed in the Creed are eternal. Will you trust them?

Understanding the Linux Kernel

Assessments, understood as tools for tracking what and how well students have learned, play a critical role in the classroom. Developing Assessments for the Next Generation Science Standards develops an approach to science assessment to meet the vision of science education for the future as it has been elaborated in A Framework for K-12 Science Education (Framework) and Next Generation Science Standards (NGSS). These documents are brand new and the changes they call for are barely under way, but the new assessments will be needed as soon as states

and districts begin the process of implementing the NGSS and changing their approach to science education. The new Framework and the NGSS are designed to guide educators in significantly altering the way K-12 science is taught. The Framework is aimed at making science education more closely resemble the way scientists actually work and think, and making instruction reflect research on learning that demonstrates the importance of building coherent understandings over time. It structures science education around three dimensions - the practices through which scientists and engineers do their work, the key crosscutting concepts that cut across disciplines, and the core ideas of the disciplines - and argues that they should be interwoven in every aspect of science education, building in sophistication as students progress through grades K-12. Developing Assessments for the Next Generation Science Standards recommends strategies for developing assessments that yield valid measures of student proficiency in science as described in the new Framework. This report reviews recent and current work in science assessment to determine which aspects of the Framework's vision can be assessed with available techniques and what additional research and development will be needed to support an assessment system that fully meets that vision. The report offers a systems approach to science assessment, in which a range of assessment strategies are designed to answer different kinds of questions with appropriate degrees of specificity and provide results that complement one another. Developing Assessments for the Next Generation Science Standards makes the case that a science assessment system that meets the Framework's vision should consist of assessments designed to support classroom instruction, assessments designed to monitor science learning on a broader scale, and indicators designed to track opportunity to learn. New standards for science education make clear that new modes of assessment designed to measure the integrated learning they promote are essential. The recommendations of this report will be key to making sure that the dramatic changes in curriculum and instruction signaled by Framework and the NGSS reduce inequities in science education and raise the level of science education for all students.

JavaFX Essentials

Assistive Technology Service Delivery: A Practical Guide for Disability and Employment Professionals provides professionals working in vocational rehabilitation with the guidelines and methodologies they need to carry out their daily work at a high standard. Crucially, the techniques and tools described in the book are based on evidence gathered in rigorous research. Chapters cover an introduction to the accommodations system, the role of assistive technology as an accommodation and evidence-based practice in vocational rehabilitation, the service delivery process, from referral, through technology procurement and implementation, to the monitoring of outcomes. Drawing on their extensive experience, the authors then present techniques, tools and tips for assistive technology service delivery, with illustrative case study examples. Written with practicing assistive technology professionals and students in mind, this book translates technical knowledge into content that professionals can understand and readily apply. Presented in a highly accessible style that translates technical knowledge into content that practicing professionals can understand and readily apply Based on evidence-based practice, giving the reader the evidence to support the application of assistive technology in vocational rehabilitation Written by highly-

regarded assistive technology professionals who share their hands-on experience of applying the techniques, tools and tips covered in the book

JavaFX 8: Introduction by Example

Unlock the potential of evergreen browsers and increase the efficiency of your ASP.NET applications by learning how to write JavaScript About This Book Boost your skillset and start bringing JavaScript into your web development projects Leverage your existing ASP.NET knowledge to develop dynamic and responsive SPAs Learn effective design patterns for sustainable, and scalable web development Who This Book Is For This book is for ASP.NET developers that want to bring JavaScript into their skillset to build applications that are truly dynamic and responsive. It's for developers who are focused on developing for users who want to deliver a great end product and a fantastic experience. What You Will Learn Get to grips with the basic to advanced concepts of JavaScript Learn how to use JavaScript on server side using Node.js Develop web applications in ASP.NET using JavaScript Get to know with industry-wide best practices and design patterns that provide maintainability and scalability Build an ASP.NET application using Angular 2 with TypeScript and Web API Explore WinJS and see how to use mobile capabilities from web applications Use JavaScript to develop scalable ASP.NET applications See how to test and debug JavaScript In Detail If you want to improve responsiveness or the UX in your ASP.NET applications, JavaScript can be a life saver. In an age where server-side operations have shifted to the client, being able to handle JavaScript with confidence and fluency is vital for ASP.NET developers. There's no point trying to fight it, so start learning with this book. Make sure your projects exceed user expectations. Begin by getting stuck into the basics of JavaScript, and explore the language in the context of ASP.NET Core. You'll then find out how to put the principles into practice, as you learn how to develop a basic ASP.NET application using Angular 2 and TypeScript. You'll also develop essential skills required to develop responsive apps, with a little help from AJAX, ensuring that you're building projects that can be easily accessed across different devices. With guidance on Node.js and some neat techniques to test and debug a range of JavaScript libraries in Visual Studio, you'll soon be well on your way to combining JavaScript with ASP.NET in a way that's capable of meeting the challenges of modern web development head-on. Style and approach This book will build the skillset of every .NET developer, so they can build stronger and more responsive web apps with confidence.

Twelve Years a Slave

To thoroughly understand what makes Linux tick and why it's so efficient, you need to delve deep into the heart of the operating system--into the Linux kernel itself. The kernel is Linux--in the case of the Linux operating system, it's the only bit of software to which the term "Linux" applies. The kernel handles all the requests or completed I/O operations and determines which programs will share its processing time, and in what order. Responsible for the sophisticated memory management of the whole system, the Linux kernel is the force behind the legendary Linux efficiency. The new edition of Understanding the Linux Kernel takes you on a guided tour through the most significant data structures, many algorithms, and programming tricks used in the kernel. Probing beyond the superficial features, the

authors offer valuable insights to people who want to know how things really work inside their machine. Relevant segments of code are dissected and discussed line by line. The book covers more than just the functioning of the code, it explains the theoretical underpinnings for why Linux does things the way it does. The new edition of the book has been updated to cover version 2.4 of the kernel, which is quite different from version 2.2: the virtual memory system is entirely new, support for multiprocessor systems is improved, and whole new classes of hardware devices have been added. The authors explore each new feature in detail. Other topics in the book include: Memory management including file buffering, process swapping, and Direct memory Access (DMA) The Virtual Filesystem and the Second Extended Filesystem Process creation and scheduling Signals, interrupts, and the essential interfaces to device drivers Timing Synchronization in the kernel Interprocess Communication (IPC) Program execution Understanding the Linux Kernel, Second Edition will acquaint you with all the inner workings of Linux, but is more than just an academic exercise. You'll learn what conditions bring out Linux's best performance, and you'll see how it meets the challenge of providing good system response during process scheduling, file access, and memory management in a wide variety of environments. If knowledge is power, then this book will help you make the most of your Linux system.

Assistive Technology Service Delivery

Notebook Large Size 8.5 x 11 Ruled 150 Pages Softcover

Critical Human Resource Development

This book challenges prevailing linguistic presumptions concerning contextual lexical meaning by examining whether pedagogic intervention targeted at raising Chinese EFL learners' awareness of the pragmatic nature of contextual lexical meaning can enhance the learners' contextual lexical inferencing competence (CLIC). CLIC is crucial to the development of a learners' vocabulary, reading ability and autonomy in reading. Through an empirical study conducted among a group of adult Chinese students of English, the author shows that the power of CLIC instruction lies mainly in its effectiveness in enhancing learners' self-confidence in making lexical inferences. This book will be of interest to researchers and students of applied linguistics, TESOL, language education, and for language professionals keen to extend their research experience.

Unity Game Optimization

Test, fuzz, and break web applications and services using Burp Suite's powerful capabilities Key Features Master the skills to perform various types of security tests on your web applications Get hands-on experience working with components like scanner, proxy, intruder and much more Discover the best-way to penetrate and test web applications Book Description Burp suite is a set of graphic tools focused towards penetration testing of web applications. Burp suite is widely used for web penetration testing by many security professionals for performing different web-level security tasks. The book starts by setting up the environment to begin an application penetration test. You will be able to configure the client and apply

target whitelisting. You will also learn to setup and configure Android and IOS devices to work with Burp Suite. The book will explain how various features of Burp Suite can be used to detect various vulnerabilities as part of an application penetration test. Once detection is completed and the vulnerability is confirmed, you will be able to exploit a detected vulnerability using Burp Suite. The book will also covers advanced concepts like writing extensions and macros for Burp suite. Finally, you will discover various steps that are taken to identify the target, discover weaknesses in the authentication mechanism, and finally break the authentication implementation to gain access to the administrative console of the application. By the end of this book, you will be able to effectively perform end-to-end penetration testing with Burp Suite. What you will learn Set up Burp Suite and its configurations for an application penetration test Proxy application traffic from browsers and mobile devices to the server Discover and identify application security issues in various scenarios Exploit discovered vulnerabilities to execute commands Exploit discovered vulnerabilities to gain access to data in various datastores Write your own Burp Suite plugin and explore the Infiltrator module Write macros to automate tasks in Burp Suite Who this book is for If you are interested in learning how to test web applications and the web part of mobile applications using Burp, then this is the book for you. It is specifically designed to meet your needs if you have basic experience in using Burp and are now aiming to become a professional Burp user.

Clerk

Many people mistakenly believe that Social Security (SS) will pay for all or most of their retire. needs, but the fact is, since its inception, SS has provided little protection. A comfortable retire. usually requires SS, pensions, personal savings & invest. The key tool for making a secure retire. a reality is financial planning. It will help clarify your retire. goals as well as other financial goals you want to 'buy' along the way. It will show you how to manage your money so you can afford today's needs yet still fund tomorrow's. You'll learn how to save your money to make it work for you & how to protect it so it will be there when you need it. Explains how you can take the best advantage of retire. plans at work, & what to do if you're on your own. Illustrations.

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