

## Deployment Fundamentals Vol 5 Building A Real World Infrastructure With Windows Server 2012 R2 Mdt 2013 And Powershell

If your job is deploying Windows 8 (or Windows 7), this book is for you. In this book, you will find practical guidance based on our many years of real-world experience deploying Windows around the world. Deployment Fundamentals, Volume 4 provides you with detailed step-by-step instructions for all aspects of deploying Windows using Microsoft Deployment Toolkit (MDT) 2012 Update 1. Detailed explanations and real-world notes help you make the right decisions and understand the hows and whys of Windows OS deployment. Samples and scripts give you the tools you need for the best results.

Winner of the 2011 Jolt Excellence Award! Getting software released to users is often a painful, risky, and time-consuming process. This groundbreaking new book sets out the principles and technical practices that enable rapid, incremental delivery of high quality, valuable new functionality to users. Through automation of the build, deployment, and testing process, and improved collaboration between developers, testers, and operations, delivery teams can get changes released in a matter of hours—sometimes even minutes—no matter what the size of a project or the complexity of its code base. Jez Humble and David Farley begin by presenting the foundations of a rapid, reliable, low-risk delivery process. Next, they introduce the “deployment pipeline,” an automated process for managing all changes, from check-in to release. Finally, they discuss the “ecosystem” needed to support continuous delivery, from infrastructure, data and configuration management to governance. The authors introduce state-of-the-art techniques, including automated infrastructure management and data migration, and the use of virtualization. For each, they review key issues, identify best practices, and demonstrate how to mitigate risks. Coverage includes

- Automating all facets of building, integrating, testing, and deploying software

- Implementing deployment pipelines at team and organizational levels
- Improving collaboration between developers, testers, and operations
- Developing features incrementally on large and distributed teams
- Implementing an effective configuration management strategy
- Automating acceptance testing, from analysis to implementation
- Testing capacity and other non-functional requirements
- Implementing continuous deployment and zero-downtime releases
- Managing infrastructure, data, components and dependencies
- Navigating risk management, compliance, and auditing

Whether you’re a developer, systems administrator, tester, or manager, this book will help your organization move from idea to release faster than ever—so you can deliver value to your business rapidly and reliably.

Define your enterprise blockchain system using the AWS blockchain managed service. **KEY FEATURES** ● Practical implementation of blockchain applications across Healthcare, Banking, and Finance. ● Covers complete solutions, including

writing smart contracts, executing chain codes, and deploying blockchain private networks. ● Best practices to write smart contracts, add authentication, manage security, and create Ethereum wallets. DESCRIPTION Building Enterprise Blockchain Solutions on AWS is a step-by-step guide for building, deploying, and managing decentralized applications on the AWS Blockchain. You will learn to build real-world decentralized applications for the Healthcare supply chain, Asset Tracker, and bank auditing applications with Hyperledger Fabric and Ethereum. The first section introduces you to the world of blockchain, AWS Blockchain offerings, and the Quantum Ledger Database. The second section introduces the concepts of Hyperledger Fabric, building the Hyperledger Fabric network with the Amazon Managed Blockchain, running the chaincode for the healthcare supply chain, building the API and UI using the Fabric node.js SDK, and adding members to the Fabric network on AWS. The third section focuses on Ethereum concepts, writing smart contracts with Solidity and deploying to the Ethereum private network on AWS with Blockchain templates, building and running the Asset Tracker dApp with Web3js and Truffle on AWS, and testing smart contracts. This book will help you to master Ethereum, Hyperledger Fabric, and the AWS Blockchain. You will be able to develop dApps for any domain, build private networks, and run your dApps on the AWS Blockchain. You will be an expert in writing and running smart contracts with Solidity and node.js chaincodes. WHAT YOU WILL LEARN ● Learn Hyperledger Fabric to build your private blockchain network. ● Write and deploy smart contracts on both Ethereum and Hyperledger Fabric. ● Add security, authentication, and keep monitoring the performance of dApps. ● Practical exposure of blockchain explorer, Truffle, Web3js, Ganache, Etherscan, Metamask, Ethereum wallet, and Remix. ● Explore the Amazon Quantum Ledger Database and ready Ethereum templates. WHO THIS BOOK IS FOR This book is well-crafted for software developers, system architects, application developers, and aspiring blockchain developers who want to create decentralized applications (dApps) at speed without wasting time in concepts and making complete use of Amazon-managed blockchains. Readers with some understanding of Ethereum and smart contracts would be helpful to speed up the learning of the concepts although it not an essential requirement. TABLE OF CONTENTS 1. An Introduction to a Blockchain 2. Exploring a Blockchain on AWS 3. Exploring the Amazon Quantum Ledger Database 4. Exploring Hyperledger Fabric 5. The AWS Managed Blockchain to Create a Fabric Network 6. Developing the Chaincode, API, and UI with the Fabric SDK on AWS 7. Adding Members to the Fabric Network on AWS 8. Deep Dive into the Ethereum Blockchain 9. The AWS Blockchain Template to Create a Private Ethereum Network 10. The Solidity Smart Contract Language 11. Creating and Deploying the Asset Tracker Contract on AWS 12. Testing and Interacting with the Asset Tracker on AWS

Learn the skills necessary to design, build, and deploy applications powered by machine learning (ML). Through the course of this hands-on book, you'll build an example ML-driven application from initial idea to deployed product. Data scientists,

software engineers, and product managers—including experienced practitioners and novices alike—will learn the tools, best practices, and challenges involved in building a real-world ML application step by step. Author Emmanuel Ameisen, an experienced data scientist who led an AI education program, demonstrates practical ML concepts using code snippets, illustrations, screenshots, and interviews with industry leaders. Part I teaches you how to plan an ML application and measure success. Part II explains how to build a working ML model. Part III demonstrates ways to improve the model until it fulfills your original vision. Part IV covers deployment and monitoring strategies. This book will help you: Define your product goal and set up a machine learning problem Build your first end-to-end pipeline quickly and acquire an initial dataset Train and evaluate your ML models and address performance bottlenecks Deploy and monitor your models in a production environment

With Solidity and React

The Step-By-Step Guide for Building a Great Company

Building Microservices

Building Machine Learning Powered Applications

ASP.NET Core 5 for Beginners

Deployment Fundamentals, Vol. 5

Develop, manage, and deploy efficient machine learning applications with Python

Building Enterprise Blockchain Solutions on AWS

More than 100,000 entrepreneurs rely on this book for detailed, step-by-step instructions on building successful, scalable, profitable startups. The National Science Foundation pays hundreds of startup teams each year to follow the process outlined in the book, and it's taught at Stanford, Berkeley, Columbia and more than 100 other leading universities worldwide. Why? The Startup Owner's Manual guides you, step-by-step, as you put the Customer Development process to work. This method was created by renowned Silicon Valley startup expert Steve Blank, co-creator with Eric Ries of the "Lean Startup" movement and tested and refined by him for more than a decade. This 608-page how-to guide includes over 100 charts, graphs, and diagrams, plus 77 valuable checklists that guide you as you drive your company toward profitability. It will help you:

- Avoid the 9 deadly sins that destroy startups' chances for success
- Use the Customer Development method to bring your business idea to life
- Incorporate the Business Model Canvas as the organizing principle for startup hypotheses
- Identify your customers and determine how to "get, keep and grow" customers profitably
- Compute how you'll drive your startup to

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repeatable, scalable profits. The Startup Owner's Manual was originally published by K&S Ranch Publishing Inc. and is now available from Wiley. The cover, design, and content are the same as the prior release and should not be considered a new or updated product.

Learn to design and deploy fully functioning microservices for your applications from scratch using Swift, Docker, and AWS Key Features Understand server-side Swift development concepts for building your first microservice Build microservices using Vapor 4 and deploy them to the cloud using Docker Learn effective techniques for enhancing maintainability and stability of your Swift applications Book Description The capabilities of the Swift programming language are extended to server-side development using popular frameworks such as Vapor. This enables Swift programmers to implement the microservices approach to design scalable and easy-to-maintain architecture for iOS, macOS, iPadOS, and watchOS applications. This book is a complete guide to building microservices for iOS applications. You'll start by examining Swift and Vapor as backend technologies and compare them to their alternatives. The book then covers the concept of microservices to help you get started with developing your first microservice. Throughout this book, you'll work on a case study of writing an e-commerce backend as a microservice application. You'll understand each microservice as it is broken down into details and written out as code throughout the book. You'll also become familiar with various aspects of server-side development such as scalability, database options, and information flow for microservices that are unwrapped in the process. As you advance, you'll get to grips with microservices testing and see how it is different from testing a monolith application. Along the way, you'll explore tools such as Docker, Postman, and Amazon Web Services. By the end of the book, you'll be able to build a ready-to-deploy application that can be used as a base for future applications. What you will learn Grasp server-side Swift development concepts using practical examples Understand the microservices approach and why Swift is a great choice for building microservices Design and structure mobile and web applications using microservices architecture Discover the available database options and understand which one to choose Scale and monitor your microservices Use Postman to automate testing for your microservices API Who this book is for The book is for iOS, iPadOS, and macOS developers and Swift programmers who want to understand how Swift can be used for building microservices. The book assumes familiarity with Swift programming and the fundamentals of the web, including how APIs work.

A comprehensive guide with basic to advanced SRE practices and hands-on examples. KEY FEATURES ?

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Demonstrates how to execute site reliability engineering along with fundamental concepts. ? Illustrates real-world examples and successful techniques to put SRE into production. ? Introduces you to DevOps, advanced techniques of SRE, and popular tools in use. DESCRIPTION Hands-on Site Reliability Engineering (SRE) brings you a tailor-made guide to learn and practice the essential activities for the smooth functioning of enterprise systems, right from designing to the deployment of enterprise software programs and extending to scalable use with complete efficiency and reliability. The book explores the fundamentals around SRE and related terms, concepts, and techniques that are used by SRE teams and experts. It discusses the essential elements of an IT system, including microservices, application architectures, types of software deployment, and concepts like load balancing. It explains the best techniques in delivering timely software releases using containerization and CI/CD pipeline. This book covers how to track and monitor application performance using Grafana, Prometheus, and Kibana along with how to extend monitoring more effectively by building full-stack observability into the system. The book also talks about chaos engineering, types of system failures, design for high-availability, DevSecOps and AIOps. WHAT YOU WILL LEARN ? Learn the best techniques and practices for building and running reliable software. ? Explore observability and popular methods for effective monitoring of applications. ? Workaround SLIs, SLOs, Error Budgets, and Error Budget Policies to manage failures. ? Learn to practice continuous software delivery using blue/green and canary deployments. ? Explore chaos engineering, SRE best practices, DevSecOps and AIOps. WHO THIS BOOK IS FOR This book caters to experienced IT professionals, application developers, software engineers, and all those who are looking to develop SRE capabilities at the individual or team level. TABLE OF CONTENTS 1. Understand the World of IT 2. Introduction to DevOps 3. Introduction to SRE 4. Identify and Eliminate Toil 5. Release Engineering 6. Incident Management 7. IT Monitoring 8. Observability 9. Key SRE KPIs: SLAs, SLOs, SLIs, and Error Budgets 10. Chaos Engineering 11. DevSecOps and AIOps 12. Culture of Site Reliability Engineering In-App purchases represent an undeniably huge potential revenue stream for any game or application. Consider that Fortnite sold over 1 billion dollars worth of in-game purchases in less than a year from its inception. Most traditional game platforms are "walled gardens" where all the assets that gamers purchase come straight from the company who wrote the game. That's good for the company; they're the only source of magic swords. But for the players, frankly, it stinks. With Ethereum, those assets could live on the public blockchain and actually be owned by

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the users, who could sell or trade them like CryptoKitties or any other ERC-721 Non-fungible Token (NFT). When a player tires of a game after a year or two, she could sell all her assets to other players to recoup her investment. This is the vision behind the In-App Pro Shop, an application the author built and describes in detail in the book. The source code is available on GitHub, so you can download it and follow along, learning the Ethereum development ecosystem as you go. Any developer seeking to learn Ethereum smart contract development will have many of the same questions: What language(s) should I use? What blockchain tech stack do I need to get started? What framework(s) will I use to build the UI? What should the project structure look like? The answers to these questions lead to even more, and the options can seem overwhelming. This book covers most of them, as well as many of the the eventual problems you'll face once you're project is growing. For instance, what happens when your contract reaches the maximum size and can no longer be deployed? How can your contract get information from off the blockchain, like current Ethereum exchange rates? The author doesn't attempt to define every term or make this book a canonical reference to Ethereum development. The field is moving far too swiftly for that. Rather, he leads you through the decision points you'll encounter when you try to set up a project and grow it beyond trivial scope.

C# 9 and .NET 5 - Modern Cross-Platform Development

Mastering the Microsoft Deployment Toolkit

Site Reliability Engineering

The Definitive Guide

Care of Military Service Members, Veterans, and Their Families

Building, Deploying, and Scaling Modern Applications in the Cloud

Build, deploy, and manage your container applications at scale

Techniques, Complication Avoidance, and Management (Expert Consult - Online)

***Publisher's Note: Microsoft will stop supporting .NET 5 in early May 2022. A new edition of this book is available that uses .NET 6 (an LTS release with support up until November 2024), C# 10, and Visual Studio 2022, as well as Visual Studio Code. Key Features • Explore the newest additions to C# 9, the .NET 5 class library, Entity Framework Core and Blazor • Strengthen your command of ASP.NET Core 5.0 and create professional websites and services • Build cross-platform apps for Windows, macOS, Linux, iOS, and Android Book Description In C# 9 and .NET 5 – Modern Cross-Platform Development, Fifth Edition, expert teacher Mark J. Price gives you***

everything you need to start programming C# applications. This latest edition uses the popular Visual Studio Code editor to work across all major operating systems. It is fully updated and expanded with a new chapter on the Microsoft Blazor framework. The book's first part teaches the fundamentals of C#, including object-oriented programming and new C# 9 features such as top-level programs, target-typed new object instantiation, and immutable types using the record keyword. Part 2 covers the .NET APIs, for performing tasks like managing and querying data, monitoring and improving performance, and working with the file system, async streams, serialization, and encryption. Part 3 provides examples of cross-platform apps you can build and deploy, such as websites and services using ASP.NET Core or mobile apps using Xamarin.Forms. The best type of application for learning the C# language constructs and many of the .NET libraries is one that does not distract with unnecessary application code. For that reason, the C# and .NET topics covered in Chapters 1 to 13 feature console applications. In Chapters 14 to 20, having mastered the basics of the language and libraries, you will build practical applications using ASP.NET Core, Model-View-Controller (MVC), and Blazor. By the end of the book, you will have acquired the understanding and skills you need to use C# 9 and .NET 5 to create websites, services, and mobile apps. What you will learn

- Build your own types with object-oriented programming
- Query and manipulate data using LINQ
- Build websites and services using ASP.NET Core 5
- Create intelligent apps using machine learning
- Use Entity Framework Core and work with relational databases
- Discover Windows app development using the Universal Windows Platform and XAML
- Build rich web experiences using the Blazor framework
- Build mobile applications for iOS and Android using Xamarin.Forms

Who this book is for This book is best for C# and .NET beginners, or programmers who have worked with C# in the past but feel left behind by the changes in the past few years. This book doesn't expect you to have any C# or .NET experience; however, you should have a general understanding of programming. Students and professionals with a science, technology, engineering, or mathematics (STEM) background can certainly benefit from this book.

Table of Contents

- Hello, C#! Welcome, .NET Core!
- Speaking C#
- Controlling Flow and Converting Types
- Writing, Debugging, and Testing Functions
- Building Your Own Types with Object-Oriented Programming
- Implementing Interfaces and Inheriting Classes
- Understanding and Packaging .NET Types
- Working with Common .NET Types
- Working with Files, Streams, and Serialization (N.B. Please use the Look Inside option to see further chapters)

Review "Mark Price's extraordinary book covers every aspect of C# 9

*and .NET 5. It is filled with step-by-step demonstrations and will be of tremendous value both to those who want to learn C# and to more experienced C# programmers making the transition to C# 9. Highly recommended!" -- Jesse Liberty - author of Programming C# and Learning C# (O'Reilly Media)*

*Deploying QoS for IP Next Generation Networks: The Definitive Guide provides network architects and planners with insight into the various aspects that drive QoS deployment for the various network types. It serves as a single source of reference for businesses that plan to deploy a QoS framework for voice, video, mobility and data applications creating a converged infrastructure. It further provides detailed design and implementation details for various service deployments across the various Cisco platforms such as the CRS-1, 12000, 7600 & 7200 series routers that are widely deployed in most Carrier Networks. The book covers architectural and implementation specific information plus recommendations for almost all the popular line cards across the various hardware platforms widely used in the market. It also addresses QoS architecture and deployment on the Cisco CRS-1 platform and is considered as a unique selling point of this book. In short the books serve as an "On the Job Manual" which can also be used as a study guide for Cisco specialist certification programs (CCNA, CCIP, CCIE) This book will include detailed illustration and configurations. In addition, it provides detailed case studies along with platform specific tests and measurement results. A link to a detailed tutorial on QoS metrics and associated test results will be available at the book's companion website in order to ensure that the reader is able to understand QoS functionality from a deployment standpoint. Covers the requirements and solutions in deploying QoS for voice, video, IPTV, mobility and data traffic classes (Quad-play networks), saving the reader time in searching for hardware specific QoS information, given the abundance of Cisco platforms and line cards. Presents real-life deployments by means of detailed case studies, allowing the reader to apply the same solutions to situations in the work place. Provides QoS architecture and implementation details on Cisco CRS-1, 12000, 7600, and 7200 routing platforms using Cisco IOS/IOS-XR software, aiding the reader in using these devices and preparing for Cisco specialist certification.*

*This is not some guru book that you read and will suddenly be a millionaire and someone who has everything in the world. However, what you will have, is a new vision on how to handle most situations in your life and how to improve your self-value and self-worth. This is what the book*

was written for; to help you get a basic start to your life and how to be more aware. I hope this book helps you become a better version of yourself and you remember to, "Go F Yourself". You will learn fundamentals that help you become more connected with yourself spiritually and mentally, help your fitness, improve your financial situation, increase your connection with your family as well as improve the fun in your life! As a veteran and previous first responder, Justin has dedicated his life to serving and giving back. As a father to an amazing daughter and building an amazing relationship with his current girlfriend, he wants to help create many more memories while helping others create their dream lives. As someone who has been divorced two times, was an alcoholic, used to be homeless, has PTSD, diagnosed with anxiety disorder, adjustment disorder, and a whole lot of negative self-talk and hatred, Justin Ehrhardt has given you basic fundamentals to become a better version of yourself.

The perimeter defenses guarding your network perhaps are not as secure as you think. Hosts behind the firewall have no defenses of their own, so when a host in the "trusted" zone is breached, access to your data center is not far behind. That's an all-too-familiar scenario today. With this practical book, you'll learn the principles behind zero trust architecture, along with details necessary to implement it. The Zero Trust Model treats all hosts as if they're internet-facing, and considers the entire network to be compromised and hostile. By taking this approach, you'll focus on building strong authentication, authorization, and encryption throughout, while providing compartmentalized access and better operational agility. Understand how perimeter-based defenses have evolved to become the broken model we use today Explore two case studies of zero trust in production networks on the client side (Google) and on the server side (PagerDuty) Get example configuration for open source tools that you can use to build a zero trust network Learn how to migrate from a perimeter-based network to a zero trust network in production

The Big Ideas Behind Reliable, Scalable, and Maintainable Systems

Designing Fine-Grained Systems

Building Secure Systems in Untrusted Networks

Kick-start your ASP.NET web development journey with the help of step-by-step tutorials and examples

How Google Runs Production Systems

Computer Applications in Production and Engineering

*Microservices in Action*

*Deploying Windows 10 Using Microsoft Deployment Toolkit*

The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE's day-to-day work: building and operating large distributed computing systems Management—Explore Google's best practices for training, communication, and meetings that your organization can use

Kubernetes is the operating system of the cloud native world, providing a reliable and scalable platform for running containerized workloads. In this friendly, pragmatic book, cloud experts John Arundel and Justin Domingus show you what Kubernetes can do—and what you can do with it. You'll learn all about the Kubernetes ecosystem, and use battle-tested solutions to everyday problems. You'll build, step by step, an example cloud native application and its supporting infrastructure, along with a development environment and continuous deployment pipeline that you can use for your own applications. Understand containers and Kubernetes from first principles; no experience necessary Run your own clusters or choose a managed Kubernetes service from Amazon, Google, and others Use Kubernetes to manage resource usage and the container lifecycle Optimize clusters for cost, performance, resilience, capacity, and scalability Learn the best tools for developing, testing, and deploying your applications Apply the latest

industry practices for security, observability, and monitoring Adopt DevOps principles to help make your development teams lean, fast, and effective

Learn how to build a real-world serverless application in the cloud that's reliable, secure, maintainable, and scalable. If you have experience building web applications on traditional infrastructure, this hands-on guide shows you how to get started with Cloud Run, a container-based serverless product on Google Cloud. Through the course of this book, you'll learn how to deploy several example applications that highlight different parts of the serverless stack on Google Cloud. Combining practical examples with fundamentals, this book will appeal to developers who are early in their learning journey as well as experienced practitioners. Build a serverless application with Google Cloud Run Learn approaches for building containers with (and without) Docker Explore Google Cloud's managed relational database: Cloud SQL Use HTTP sessions to make every user's experience unique Explore identity and access management (IAM) on Cloud Run Provision Google Cloud resources using Terraform Learn how to handle background task scheduling on Cloud Run Move your service from Cloud Run to Knative Serving with little effort Annotation Over the past 10 years, distributed systems have become more fine-grained. From the large multi-million line long monolithic applications, we are now seeing the benefits of smaller self-contained services. Rather than heavy-weight, hard to change Service Oriented Architectures, we are now seeing systems consisting of collaborating microservices. Easier to change, deploy, and if required retire, organizations which are in the right position to take advantage of them are yielding significant benefits. This book takes an holistic view of the things you need to be cognizant of in order to pull this off. It covers just enough understanding of technology, architecture, operations and organization to show you how to move towards finer-grained systems.

System Center 2012 Configuration Manager

The Startup Owner's Manual

Building on Ethereum

Reliable Software Releases through Build, Test, and Deployment Automation (Adobe Reader)

Understanding Distributed Systems

**Jenkins: The Definitive Guide**

**Performing Reliable MLOps with Capabilities of TFX, Sagemaker and Kubernetes (English Edition)**

**Transactions on Pattern Languages of Programming IV**

If your job is deploying Windows 10, this book is for you. In this book, you will find practical guidance based on our many years of world experience deploying Windows around the world. Deployment Fundamentals, Volume 6, provides you with detailed step-by-step instructions, as well as decision-making guidance and explanations that provide answers on the Whys and Hows around Windows OS deployment using Microsoft Deployment Toolkit (MDT) 2013 Update 2. The book also includes many real-world notes and troubleshooting tips and tricks. To get you going as quickly as possible, the book's sample scripts contain a fully automated build of the entire environment, the hydration kit. That includes a fully configured Active Directory environment, including DNS, DHCP, WSUS, PXE, DFS-R Replication, SQL Express, and more. With this book, you will learn how to: Install and configure MDT 2013 Update 2 for production deployments - Build the supporting infrastructure - Use the script repository included with this book in your own environment - Create production-ready reference images for Windows 10 - Build a real-world deployment solution for Windows 10 - Add and deploy applications - Perform real-world driver management - Apply advanced configurations for CustomSettings.ini and deployment automation - Extend MDT using application wrappers, userexit scripts, and PowerShell - Prestage deployment sets using the MDT databases - Perform advanced configuration using web services - Deploy Office 2016, including the Click-to-Run 365 version

This is the ultimate source for the working IT Professional who wants to design and implement System Center 2012 Configuration Manager in a midsize- or small-business environment. Enterprise administrators also will find a lot of inspiration by reading the book. Many of the features and scenarios discussed fit all three environments. The book is packed with real-world scenarios taken from years of experience with SMS and ConfigMgr projects. By following the book from A-Z, you will end up with a ConfigMgr environment that is based on best practices and production ready.

Learn how to build web applications efficiently using ASP.NET Core 5 with the C# programming language and related frameworks. Key Features: Build web apps and services and cross-platform applications using .NET and C#. Understand different web programming concepts with the help of real-world examples. Explore the new features and APIs in ASP.NET Core 5, EF Core, Visual Studio, and Blazor. Book Description: ASP.NET Core 5 for Beginners is a comprehensive introduction for those who are new to the framework. This condensed guide takes a practical and engaging approach to cover everything that you need to know to start using ASP.NET Core 5 for building cloud-ready, modern web applications. The book starts with a brief introduction to the ASP.NET Core framework and highlights the new features in its latest release, ASP.NET Core 5. It then covers the improvements in cross-platform support, the new engines that will help you to understand web development, and the new frontend technologies available with Blazor for building interactive web UIs. As you advance, you'll learn the fundamentals of the different frameworks and capabilities that ship with

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ASP.NET Core. You'll also get to grips with securing web apps with identity implementation, unit testing, and the latest in container and cloud-native to deploy them to AWS and Microsoft Azure. Throughout the book, you'll find clear and concise code samples that illustrate each concept along with the strategies and techniques that will help to develop scalable and robust web apps. By the end of this book, you'll have learned how to leverage ASP.NET Core 5 to build and deploy dynamic websites and services in a variety of real-world scenarios. What you will learn

- Explore the new features and APIs introduced in ASP.NET Core 5 and Blazor
- Put basic ASP.NET Core 5 concepts into practice with the help of clear and simple samples
- Work with Entity Framework Core and its different providers to implement your application's data access
- Discover the different web frameworks that ASP.NET Core 5 offers for building web applications
- Get to grips with the basics of building RESTful web APIs to work with real data
- Deploy your web apps in AWS, Azure, and Google Cloud
- Work with Docker containers
- Work with SignalR to add real-time notifications to your app

Who this book is for This book is for developers who want to learn how to develop web-based applications using the ASP.NET Core framework. Familiarity with the C# language and a basic understanding of HTML and CSS is required to get the most out of this book.

An insightful journey to MLOps, DevOps, and Machine Learning in the real environment. KEY FEATURES ? Extensive knowledge and concept explanation of Kubernetes components with examples. ? An all-in-one knowledge guide to train and deploy ML pipelines using Docker and Kubernetes. ? Includes numerous MLOps projects with access to proven frameworks and the use of deep learning concepts. DESCRIPTION 'Continuous Machine Learning with Kubeflow' introduces you to the modern machine learning infrastructure, which includes Kubernetes and the Kubeflow architecture. This book will explain the fundamentals of deploying various AI/ML use cases with TensorFlow training and serving with Kubernetes and how Kubernetes can help with specific projects from start to finish. This book will help demonstrate how to use Kubeflow components, deploy them in GCP, and serve them in production using real-time data prediction. With Kubeflow KFServing, we'll look at serving techniques, build a computer vision user interface in streamlit, and then deploy it to the Google cloud platforms, Kubernetes and Heroku. Next, we also explore how to build Explainable AI for determining fairness and biasness with a What-if tool. Backed with various use-cases, we will learn how to move machine learning into production, including training and serving. After reading this book, you will be able to build your ML projects in the cloud using Kubeflow and the latest technology. In addition, you will gain a solid knowledge of DevOps and MLOps, which opens doors to various job roles in companies. WHAT YOU WILL LEARN ? Get comfortable with the architecture and the orchestration of Kubernetes. ? Learn to containerize and deploy from scratch using Docker and Google Cloud Platform. ? Practice how to develop the Kubeflow Orchestrator pipeline for a TensorFlow model. ? Create AWS SageMaker pipelines, right from training to deployment in production. ? Build the TensorFlow Extended (TFX) pipeline for an NLP application using Tensorboard and TFJob. WHO THIS BOOK IS FOR This book is for MLOps, DevOps, Machine Learning Engineers, and Data Scientists who want to continuously deploy machine learning pipelines and manage them at scale using Kubernetes. The readers should have a strong background in machine learning and some knowledge of Kubernetes is required. TABLE OF CONTENTS 1. Introduction to Kubeflow & Kubernetes Cloud Architecture 2. Developing Kubeflow Pipeline in GCP 3. Designing Computer Vision Model in Kubeflow 4.

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Building TFX Pipeline 5. ML Model Explainability & Interpretability 6. Building Weights & Biases Pipeline Development 7. Applied ML with AWS Sagemaker 8. Web App Development with Streamlit & Heroku

Hands-on Site Reliability Engineering

Kubernetes: Up and Running

Building a Real-World Infrastructure with Windows Server 2012 R2, MDT 2013, and PowerShell

Building Secure and Reliable Systems

Going from Idea to Product

Continuous Delivery

Introduction to Information Retrieval

Dive into the Future of Infrastructure

The software development ecosystem is constantly changing, providing a constant stream of new tools, frameworks, techniques, and paradigms. Over the past few years, incremental developments in core engineering practices for software development have created the foundations for rethinking how architecture changes over time, along with ways to protect important architectural characteristics as it evolves. This practical guide ties those parts together with a new way to think about architecture and time. Legend has it that Google deploys over two billion application containers a week. How's that possible? Google revealed the secret through a project called Kubernetes, an open source cluster orchestrator (based on its internal Borg system) that radically simplifies the task of building, deploying, and maintaining scalable distributed systems in the cloud. This practical guide shows you how Kubernetes and container technology can help you achieve new levels of velocity, agility, reliability, and efficiency.

Authors Kelsey Hightower, Brendan Burns, and Joe Beda—who've worked on Kubernetes at Google and other organizations—explain how this system fits into the lifecycle of a distributed application. You will learn how to use tools and APIs to automate scalable distributed systems, whether it is for online services, machine-learning applications, or a cluster of Raspberry Pi computers. Explore the distributed system challenges that Kubernetes addresses Dive into containerized application development, using containers such as Docker Create and run containers on Kubernetes, using the docker image format and container runtime Explore specialized objects essential for running applications in production Reliably roll out new software versions without downtime or errors Get examples of how to develop and deploy real-world applications in Kubernetes

Can a system be considered truly reliable if it isn't fundamentally secure? Or can it be considered secure if it's unreliable? Security is crucial to the design and operation of scalable systems in production, as it plays an important part in product quality, performance, and availability. In this book, experts from Google share best practices to help your organization design scalable and reliable systems that are fundamentally secure. Two previous O'Reilly books from Google—Site Reliability Engineering and The Site Reliability Workbook—demonstrated how and why a commitment to the entire service lifecycle enables organizations to successfully build, deploy, monitor, and maintain software systems. In this latest guide, the authors offer insights into system design, implementation, and maintenance from practitioners who specialize in security and reliability. They also discuss how building and adopting their recommended best practices requires a culture that's supportive of such change. You'll learn about

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secure and reliable systems through: Design strategies Recommendations for coding, testing, and debugging practices Strategies to prepare for, respond to, and recover from incidents Cultural best practices that help teams across your organization collaborate effectively

Get well-versed with FastAPI features and best practices for testing, monitoring, and deployment to run high-quality and robust data science applications Key FeaturesCover the concepts of the FastAPI framework, including aspects relating to asynchronous programming, type hinting, and dependency injectionDevelop efficient RESTful APIs for data science with modern PythonBuild, test, and deploy high performing data science and machine learning systems with FastAPIBook Description FastAPI is a web framework for building APIs with Python 3.6 and its later versions based on standard Python-type hints. With this book, you'll be able to create fast and reliable data science API backends using practical examples. This book starts with the basics of the FastAPI framework and associated modern Python programming language concepts. You'll be taken through all the aspects of the framework, including its powerful dependency injection system and how you can use it to communicate with databases, implement authentication and integrate machine learning models. Later, you'll cover best practices relating to testing and deployment to run a high-quality and robust application. You'll also be introduced to the extensive ecosystem of Python data science packages. As you progress, you'll learn how to build data science applications in Python using FastAPI. The book also demonstrates how to develop fast and efficient machine learning prediction backends and test them to achieve the best performance. Finally, you'll see how to implement a real-time face detection system using WebSockets and a web browser as a client. By the end of this FastAPI book, you'll have not only learned how to implement Python in data science projects but also how to maintain and design them to meet high programming standards with the help of FastAPI. What you will learnExplore the basics of modern Python and async I/O programmingGet to grips with basic and advanced concepts of the FastAPI frameworkImplement a FastAPI dependency to efficiently run a machine learning modelIntegrate a simple face detection algorithm in a FastAPI backendIntegrate common Python data science libraries in a web backendDeploy a performant and reliable web backend for a data science applicationWho this book is for This Python data science book is for data scientists and software developers interested in gaining knowledge of FastAPI and its ecosystem to build data science applications. Basic knowledge of data science and machine learning concepts and how to apply them in Python is recommended.

Five Fundamentals to Building a Better Life (Psst... They All Start with "F")

IFIP TC5 International Conference on Computer Applications in Production and Engineering (CAPE '97) 5-7 November 1997, Detroit, Michigan, USA

Docker on Amazon Web Services

A Developer's Guide to Build, Deploy, and Managed Apps Using Ethereum, Hyperledger Fabric, and AWS Blockchain (English Edition)

Build Capability to Design, Deploy, Monitor, and Sustain Enterprise Software Systems at Scale (English Edition)

Continuous Integration for the Masses

Go F Yourself

*Summary Microservices in Action is a practical book about building and deploying microservice-based applications. Written for developers and architects with a solid grasp of service-oriented development, it tackles the challenge of putting microservices into production. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Invest your time in designing great applications, improving infrastructure, and making the most out of your dev teams. Microservices are easier to write, scale, and maintain than traditional enterprise applications because they're built as a system of independent components. Master a few important new patterns and processes, and you'll be ready to develop, deploy, and run production-quality microservices. About the Book Microservices in Action teaches you how to write and maintain microservice-based applications. Created with day-to-day development in mind, this informative guide immerses you in real-world use cases from design to deployment. You'll discover how microservices enable an efficient continuous delivery pipeline, and explore examples using Kubernetes, Docker, and Google Container Engine. What's inside An overview of microservice architecture Building a delivery pipeline Best practices for designing multi-service transactions and queries Deploying with containers Monitoring your microservices About the Reader Written for intermediate developers familiar with enterprise architecture and cloud platforms like AWS and GCP. About the Author Morgan Bruce and Paulo A. Pereira are experienced engineering leaders. They work daily with microservices in a production environment, using the techniques detailed in this book. Table of Contents PART 1 - The lay of the land Designing and running microservices Microservices at SimpleBank PART 2 - Design Architecture of a microservice application Designing new features Transactions and queries in microservices Designing reliable services Building a reusable microservice framework PART 3 - Deployment Deploying microservices Deployment with containers and schedulers Building a delivery pipeline for microservices PART 4 - Observability and ownership Building a monitoring system Using logs and traces to understand behavior Building microservice teams Run Docker on AWS and build real-world, secure, and scalable container platforms on cloud Key Features Configure Docker for the ECS environment Integrate Docker with different AWS tools Implement container networking and deployment at scale Book Description Over the last few years, Docker has been the gold standard for building and distributing container applications. Amazon Web Services (AWS) is a leader in public cloud computing, and was the first to offer a managed container platform in the form of the Elastic Container Service (ECS). Docker on Amazon Web Services starts with the basics of containers, Docker, and AWS, before teaching you how to install Docker on your local machine and establish access to your AWS account. You'll then dig deeper into the ECS, a native container management platform provided by AWS that simplifies management and operation of your Docker clusters and applications for no additional cost. Once you have got to grips with the basics, you'll solve key operational challenges, including secrets management and auto-scaling your infrastructure and applications. You'll explore alternative strategies for deploying and running your Docker applications on AWS, including Fargate and ECS Service Discovery, Elastic Beanstalk, Docker Swarm and Elastic Kubernetes Service (EKS). In addition to this, there will be a strong focus on adopting an Infrastructure as Code (IaC) approach using AWS CloudFormation. By the end of this book, you'll not only understand how to run*

*Docker on AWS, but also be able to build real-world, secure, and scalable container platforms in the cloud. What you will learn Build, deploy, and operate Docker applications using AWS Solve key operational challenges, such as secrets management Exploit the powerful capabilities and tight integration of other AWS services Design and operate Docker applications running on ECS Deploy Docker applications quickly, consistently, and reliably using IaC Manage and operate Docker clusters and applications for no additional cost Who this book is for Docker on Amazon Web Services is for you if you want to build, deploy, and operate applications using the power of containers, Docker, and Amazon Web Services. Basic understanding of containers and Amazon Web Services or any other cloud provider will be helpful, although no previous experience of working with these is required. Ready to dive into smart contract development for the blockchain? With this practical guide, experienced engineers and beginners alike will quickly learn the entire process for building smart contracts for Ethereum—the open source blockchain-based distributed computing platform. You'll get up to speed with the fundamentals and quickly move into builder mode. Kevin Solorio, Randall Kanna, and Dave Hoover show you how to create and test your own smart contract, create a frontend for users to interact with, and more. It's the perfect resource for people who want to break into the smart contract field but don't know where to start. In four parts, this book helps you: Explore smart contract fundamentals, including the Ethereum protocol, Solidity programming language, and the Ethereum Virtual Machine Dive into smart contract development using Solidity and gain experience with Truffle framework tools for deploying and testing your contracts Use Web3 to connect your smart contracts to an application so users can easily interact with the blockchain Examine smart contract security along with free online resources for smart contract security auditing Streamline software development with Jenkins, the popular Java-based open source tool that has revolutionized the way teams think about Continuous Integration (CI). This complete guide shows you how to automate your build, integration, release, and deployment processes with Jenkins—and demonstrates how CI can save you time, money, and many headaches. Ideal for developers, software architects, and project managers, Jenkins: The Definitive Guide is both a CI tutorial and a comprehensive Jenkins reference. Through its wealth of best practices and real-world tips, you'll discover how easy it is to set up a CI service with Jenkins. Learn how to install, configure, and secure your Jenkins server Organize and monitor general-purpose build jobs Integrate automated tests to verify builds, and set up code quality reporting Establish effective team notification strategies and techniques Configure build pipelines, parameterized jobs, matrix builds, and other advanced jobs Manage a farm of Jenkins servers to run distributed builds Implement automated deployment and continuous delivery*

*Mastering the Fundamentals*  
*Building Evolutionary Architectures*  
*VMware NSX Automation Fundamentals*  
*Build intelligent apps, websites, and services with Blazor, ASP.NET Core, and Entity Framework Core using Visual Studio Code*  
*Hands-On Swift 5 Microservices Development*  
*From Fundamentals to Deployment*

*Deployment Fundamentals, Vol. 4*

*Deploying .NET Applications*

**Learning to build distributed systems is hard, especially if they are large scale. It's not that there is a lack of information out there. You can find academic papers, engineering blogs, and even books on the subject. The problem is that the available information is spread out all over the place, and if you were to put it on a spectrum from theory to practice, you would find a lot of material at the two ends, but not much in the middle. That is why I decided to write a book to teach the fundamentals of distributed systems so that you don't have to spend countless hours scratching your head to understand how everything fits together. This is the guide I wished existed when I first started out, and it's based on my experience building large distributed systems that scale to millions of requests per second and billions of devices. If you develop the back-end of web or mobile applications (or would like to!), this book is for you. When building distributed systems, you need to be familiar with the network stack, data consistency models, scalability and reliability patterns, and much more. Although you can build applications without knowing any of that, you will end up spending hours debugging and re-designing their architecture, learning lessons that you could have acquired in a much faster and less painful way.**

**The book provides civilian medical and nonmedical care providers with practical information to effectively understand, support, and address this population's needs. Promoting family resilience is a theme emphasized throughout chapters on traumatic brain injury, substance use disorders, and more.**

**Build a solid foundation of knowledge based on the fundamentals and employ step-by-step instruction from Spine Surgery. Edited by Edward C. Benzel, this best-selling medical reference explores the full spectrum of surgical techniques used in spine surgery and delivers the comprehensive, cutting-edge guidance you need to achieve successful outcomes. Online access, thorough updates, contributions by leading international authorities, an abundance of detailed illustrations, and procedural video clips provide everything you need to avoid and manage complex problems. Glean essential, up-to-date, need-to-know information in one comprehensive reference that explores the full spectrum of surgical techniques used in spine surgery. Hone your surgical skills and technique with intraoperative videos and more than 800 outstanding illustrations demonstrating each technique step by step. Grasp and apply the latest knowledge from more than 25 brand-new chapters, as well as extensive revisions or total rewrites to the majority of existing chapters to present all of the most up-to-date information available on every aspect of spine surgery including motion preservation technologies, endovascular management, back pain and psychosocial interactions, biomechanics, and more. Consult with the best. Renowned neurosurgery authority Edward C. Benzel leads an international team of accomplished neurosurgeons and orthopedic surgeons - many new to this edition - who provide dependable guidance and share innovative approaches to surgical**

**techniques and complications management. Equip yourself to address increasing occurrences of pain among aging and physically active patients. Access the information you need, where you need it on your laptop or mobile device via expertconsult.com, with fully searchable text, a wealth of procedural videos, online updates from the experts, downloadable image gallery and links to PubMed.**

**Proven author provides expert analysis on key new features Visual Studio 2005 release provides an ample catalyst for sales of this book Our .NET 2.0 series has proven to be a very successful book line; this is a member of such**

**Best Practices for Designing, Implementing, and Maintaining Systems**

**Designing Data-Intensive Applications**

**Deploying QoS for Cisco IP and Next Generation Networks**

**Deploying Windows 8 and Office 2013 Using Mdt 2012 Update 1**

**Alternative Energy Systems in Building Design (GreenSource Books)**

**Spine Surgery 2-Vol Set E-Book**

**Build microservices for mobile and web applications using Swift 5 and Vapor 4**

**Building Serverless Applications with Google Cloud Run**

*No way! Automating the deployment of the entire infrastructure? That can't be done! These are words we have heard many times, but the answer is: Yes, you can, with the step-by-step guides, sample scripts, and other resources found in this book. In the modern datacenter, everything is about automation, repeatable processes, and well-designed and documented infrastructure. This can be accomplished with PowerShell and MDT 2013. In this book, you learn how to install and configure the core infrastructure components in Windows Server 2012 R2. You start from absolutely nothing, and using the book and its sample scripts, build a complete real-world, production-ready infrastructure.*

*Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.*

*Deployment Fundamentals, Vol. 5 Building a Real-World Infrastructure with Windows Server 2012 R2, MDT 2013, and PowerShell*

*Data is at the center of many challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we have an overwhelming variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right choices for your application? How do you make sense of all these buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for processing and storing data. Software keeps changing, but the fundamental principles remain the same. With this book, software engineers and architects will learn how to apply those ideas in practice, and how to make full use of data in modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively Make informed decisions by identifying the strengths and weaknesses of different tools Navigate the trade-offs around consistency, scalability, fault tolerance, and complexity Understand the distributed systems research upon which modern databases are built Peek behind the scenes of major online services, and learn from their architectures*

*Deployment Fundamentals, Vol. 6*

*Zero Trust Networks*

*Hands-On Smart Contract Development with Solidity and Ethereum*

*Learning MSBuild and ClickOnce*

*Continuous Machine Learning with Kubeflow*

*Support Constant Change*

*Cloud Native DevOps with Kubernetes*

*Building Data Science Applications with FastAPI*

The Transactions on Pattern Languages of Programming subline aims to publish papers on patterns and pattern languages as applied to software design, development, and use, throughout all phases of the software life cycle, from requirements and design to implementation, maintenance and evolution. The primary focus of this LNCS Transactions subline is on patterns, pattern collections, and pattern languages themselves. The journal also includes reviews, survey articles, criticisms of patterns and pattern languages, as well as other research on patterns and pattern languages. This book, the third volume in the Transactions on Pattern Languages of Programming series, presents five papers that have been through a careful peer review process involving both pattern experts and domain experts. The papers present various pattern languages and a study of applying patterns and represent some of the best work that has been carried

out in design patterns and pattern languages of programming over the last few years.

In the latter half of the 20th century, forces have conspired to make the human community, at last, global. The easing of tensions between major nations, the expansion of trade to worldwide markets, widespread travel and cultural exchange, pervasive high-speed communications and automation, the explosion of knowledge, the streamlining of business, and the adoption of flexible methods have changed the face of manufacturing itself, and of research and education in manufacturing. The acceptance of the continuous improvement process as a means for organizations to respond quickly and effectively to swings in the global market has led to the demand for individuals educated in a broad range of cultural, organizational, and technical fields and capable of absorbing and adapting required knowledge and training throughout their careers. No longer will manufacturing research and education focus on an industrial sector or follow a national trend, but rather will aim at enabling international teams of companies to cooperate in rapidly designing, prototyping, and manufacturing products. The successful enterprise of the 21st century will be characterized by an organizational structure that efficiently responds to customer demands and changing global circumstances, a corporate culture that empowers employees at all levels and encourages constant communication among related groups, and a technological infrastructure that fully supports process improvement and integration. In changing itself to keep abreast of the broader transformation in manufacturing, the enterprise must look first at its organization and culture, and thereafter at supporting technologies.

Take a deep dive into the world of Windows desktop deployment using the Microsoft Deployment Toolkit About This Book Learn Microsoft Deployment Toolkit best practices and how to adopt them into your deployment project Troubleshoot task sequence errors and quickly resolve deployment blockers An easy-to-follow, in-depth guide to image creation, customization, and deployment of Windows Who This Book Is For This book is ideal for those deploying or planning to deploy Windows, in need of a top-to-bottom guide on project deployment. It is also an invaluable resource for consultants who need a top-to-bottom guide (or just a refresher) on project deployment. What You Will Learn Build a production-ready MDT environment Administer the environment for multiple users Customize your reference image with an MDT Task Sequence Create standalone media for offline deployments Customize the default user profile according to the version of Windows Get to grips with some troubleshooting steps and processes to reduce the time for recovery of a failed image Customize and create Windows images for deployment Discover useful tips and tricks to help save time in your deployment projects In Detail The Microsoft Deployment Toolkit (MDT) provides a comprehensive collection of tools, processes, and guidance for automating desktop and server deployments. It considerably reduces deployment time and standardizes desktop and server images. Moreover, MDT offers improved security and ongoing configuration management. Microsoft Deployment Toolkit is the official supported method of creating and customizing Windows images for deployment. Starting from scratch, this book walks you through the MDT setup, task sequence creation, and

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image deployment steps in detail. Breaking down the various MDT concepts, this book will give you a thorough understanding of the deployment process. Beginning with imaging concepts and theory, you will go on to build a Microsoft Deployment Toolkit environment. You will understand the intricacies of customizing the default user profile in different versions of Windows. Driver handling can be a challenge for larger organizations; we'll cover various driver concepts including mandatory driver profiles. ]Other important topics like the User State Migration Tool (USMT), configuration of XML files, and how to troubleshoot the USMT are also discussed in the book. We will cover the verifier and Windows Performance Toolkit for image validation scenarios. Furthermore, you will learn about MDT web frontend implementation as well as how to utilize the database capabilities of MDT for deeper deployment options. We'll wrap it all up with some links to resources for more information, blogs to watch, and useful Twitter handles. Style and approach This is a comprehensive guide written using a step-by-step approach. It begins with the basics and gradually moves on to the advanced topics MDT.

Design High-Performance Alternative Energy Systems for Buildings A comprehensive reference for architects and engineers, this GreenSource book provides practical design and installation guidelines for some of the most commercially viable alternative energy technologies. Construction materials, system deployment, typical installations, and environmental impact are covered. Alternative Energy Systems in Building Design includes information on LEED design, energy conservation, and solar power financing and return on investment. Power purchase agreements (PPAs) and national and international carbon cap and trade are also discussed. Valuable appendices contain detailed design data tables and certified equipment listings. Alternative Energy Systems in Building Design covers: Solar power system physics and technologies California solar initiative program Energy conservation Passive heating solar technologies Fuel cell technology Wind energy technologies Ocean energy technologies Hydroelectric and micro-hydro turbine power Geothermal energy Biofuel, biogas, and thermal depolymerization technologies Fission- and fusion-type nuclear power Air pollution abatement