

## Deployment Fundamentals, Vol 5: Building A Real World Infrastructure With Windows Server 2012 R2, MDT 2013, And PowerShell

*Fundamentals of GPS receivers covers GPS receivers' theory and practice. The book begins with the basics of GPS receivers and moves onward to more advanced material. The book examines three types of GPS receiver implementations: first is the custom design by the author; second is an industry standard design, now part of the open source network; the third relates to the receiver designed by JPL /NASA. Each receiver is unique allowing the reader to see how each design solves the same problems. Chapters discuss carrier phase measurements and GPS time and frequency measurements. The overall text is measurement oriented as opposed to processing the measurements. With a focus on the fundamentals of measurements the reader will be building their intuition for the physical phenomenon at work.*

*See how you can effectively use today's technology to better accomplish workplace learning. You'll gain an understanding of how e-learning, Web-based training, and intranets can facilitate different aspects of workplace learning!*

*Controller-Based Wireless LAN Fundamentals An end-to-end reference guide to design, deploy, manage, and secure 802.11 wireless networks As wired networks are increasingly replaced with 802.11n wireless connections, enterprise users are shifting to centralized, next-generation architectures built around Wireless LAN Controllers (WLC). These networks will increasingly run business-critical voice, data, and video applications that once required wired Ethernet. In Controller-Based Wireless LAN Fundamentals, three senior Cisco wireless experts bring together all the practical and conceptual knowledge professionals need to confidently design, configure, deploy, manage, and troubleshoot 802.11n networks with Cisco Unified Wireless Network (CUWN) technologies. The authors first introduce the core principles, components, and advantages of next-generation wireless networks built with Cisco offerings. Drawing on their pioneering experience, the authors present tips, insights, and best practices for network design and implementation as well as detailed configuration examples. Next, they illuminate key technologies ranging from WLCs to Lightweight Access Point Protocol (LWAPP) and Control and Provisioning of Wireless Access Points (CAPWAP), Fixed Mobile Convergence to WiFi Voice. They also show how to take advantage of the CUWN's end-to-end security, automatic configuration, self-healing, and integrated management capabilities. This book serves as a practical, hands-on reference for all network administrators, designers, and engineers through the entire project lifecycle, and an authoritative learning tool for new wireless certification programs. This is the only book that Fully covers the principles and components of next-generation wireless networks built with Cisco WLCs and Cisco 802.11n AP Brings together real-world tips, insights, and best practices for designing and implementing next-generation wireless networks Presents start-to-finish configuration examples for common deployment scenarios Reflects the extensive first-hand experience of Cisco experts Gain an operational and design-level understanding of WLAN Controller (WLC) architectures, related technologies, and the problems they solve Understand 802.11n, MIMO, and protocols developed to support WLC architecture Use Cisco technologies to enhance wireless network reliability, resilience, and scalability while reducing operating expenses Safeguard your assets using Cisco Unified Wireless Network's advanced security features Design wireless networks capable of serving as an enterprise's primary or only access network and supporting advanced mobility services Utilize Cisco Wireless Control System (WCS) to plan, deploy, monitor, troubleshoot, and report on wireless networks throughout their lifecycles Configure Cisco wireless LANs for multicasting Quickly troubleshoot problems with Cisco controller-based wireless LANs This book is part of the Cisco Press® Fundamentals Series. Books in this series introduce networking professionals to new networking technologies, covering network topologies, sample deployment concepts, protocols, and management techniques. Category: Wireless Covers: Cisco Controller-Based Wireless LANs*

*The second edition of a comprehensive introduction to machine learning approaches used in predictive data analytics, covering both theory and practice. Machine learning is often used to build predictive models by extracting patterns from large datasets. These models are used in predictive data analytics applications including price prediction, risk assessment, predicting customer behavior, and document classification. This introductory textbook offers a detailed and focused treatment of the most important machine learning approaches used in predictive data analytics, covering both theoretical concepts and practical applications. Technical and mathematical material is augmented with explanatory worked examples, and case studies illustrate the application of these models in the broader business context. This second edition covers recent developments in machine learning, especially in a new chapter on deep learning, and two new chapters that go beyond predictive analytics to cover unsupervised learning and reinforcement learning.*

*Deployment Fundamentals, Vol. 5*

*Develop a full-stack web application with Python and Flask*

*Mastering System Center Configuration Manager*

*The Bulgarian C# Book*

*Engineering MLOps*

*CRM Fundamentals*

**CRM Fundamentals is a critical and comprehensive resource for executives and project leaders tasked with managing customer relationship management (CRM) initiatives. It provides an introduction to CRM and how it delivers value to organizations, and describes the process to build and execute a CRM roadmap successfully—including identifying goals, lining up the right people, planning projects, choosing software packages and consultants, managing the initial CRM implementation, and maintaining and evolving the program over time. Written by senior CRM consultants, CRM Fundamentals includes plenty of detailed, useful advice to help you get the most value from your CRM investments and to avoid common pitfalls associated with CRM.**

**Learn all that's needed to build a fully functional web application from scratch. Key FeaturesDelve deep into the principle behind RESTful APILearn how to build a scalable web application with the RESTful API architecture and Flask frameworkKnow what are the exact tools and methodology to test your applications and how to use themBook Description Python is a flexible language that can be used for much more than just script development. By knowing the Python RESTful APIs work, you can build a powerful backend for web applications and mobile applications using Python. You'll take your first steps by building a simple API and learning how the frontend web interface can communicate with the backend. You'll also learn how to serialize and deserialize objects using the marshmallow library. Then, you'll learn how to authenticate and authorize users using Flask-JWT. You'll also learn how to enhance your APIs by adding useful features, such as email, image upload, searching, and pagination. You'll wrap up the whole book by deploying your APIs to the cloud. By the end of this book, you'll have the confidence and skill to leverage the power of RESTful APIs and Python to build efficient web applications. What you will learnUnderstand the concept of a RESTful APIBuild a RESTful API using Flask and the Flask-Restful extensionManipulate a database using Flask-SQLAlchemy and Flask-MigrateSend out plaintext and HTML format emails using the Mailgun APIImplement a pagination function using Flask-SQLAlchemyUse caching to improve API performance and efficiently obtain the latest informationDeploy an application to Heroku and test it using PostmanWho this book is for This book is ideal for aspiring software developers who have a basic-to-intermediate knowledge of Python programming and who want to develop web applications using Python. Knowledge of how web applications work will be beneficial but is not essential.**

**Deployment Fundamentals, Vol. 6Deploying Windows 10 Using Microsoft Deployment Toolkit**

**"I am very pleased to see EPPP Fundamentals, a concise, compact presentation of essential information, that does not overwhelm the reader who is already feeling some anxiety about the upcoming exam. This is an efficient alternative to expensive EPPP preparation courses, and is now at the top of my list of recommendations for our graduates." Richard Tedeschi, PhD, Professor of Psychology, University of North Carolina-Charlotte This authoritative guide to the EPPP provides an affordable, concise, and comprehensive review of core exam content and includes over 300 sample questions. The guide goes beyond merely "teaching the test" through rote memorization. Instead, it covers the eight content domains of the EPPP and their knowledge areas in a step-by-step, narrative, and review format. The book also includes contributions from the directors of top psychology training and internship programs in the United States. The combined approach of providing a comprehensive review from true content experts helps users gain the depth and breadth of knowledge required for passing the exam, and mirrors how doctoral-level courses are commonly taught. The review gives test-takers an orientation to the EPPP by covering the development and format of the exam along with successful test-taking strategies. Chapters covering EPPP content domains each include a comprehensive review of the material, key points to remember, sample questions and answers, and recommended readings for more in-depth study.**

**Reflecting the test's presentation, chapter authors cover each subject domain according to the ASPPB's EPPP Information for Candidates Guide. Chapters are written by clinical supervisors and faculty directly involved in training interns, residents, and fellows in psychology. In addition to sample exam questions with answers in each chapter, a bonus section of 100 questions gives readers practice in taking this high-stakes test. Key Features: Presents an in-depth, comprehensive content review that goes beyond "teaching the test" Provides an affordable alternative to expensive EPPP preparation courses Written and edited by directors of the foremost training, internship, and postdoctoral fellowship programs Includes key points to remember, sample questions and answers, and recommended readings in each chapter Presents over 300 sample questions and answers**

**IoT Fundamentals**

**A Book of Lenses, Second Edition**

**Fundamentals of 5G Communications: Connectivity for Enhanced Mobile Broadband and Beyond**

**Train the Trainer/Vol 5**

**Deploying Windows 10 Using Microsoft Deployment Toolkit**

**Fundamentals of Ultra-Dense Wireless Networks**

This book provides a comprehensive analysis of Brooks-Iyengar Distributed Sensing Algorithm, which brings together the power of Byzantine Agreement and sensor fusion in building a fault-tolerant distributed sensor network. The authors analyze its long-term impacts, advances, and future prospects. The book starts by discussing the Brooks-Iyengar algorithm, which has made significant impact since its initial publication in 1996. The authors show how the technique has been applied in many domains such as software reliability, distributed systems and OS development, etc. The book exemplifies how the algorithm has enhanced new real-time features by adding fault-tolerant capabilities for many applications. The authors posit that the Brooks-Iyengar Algorithm will to continue to be used where fault-tolerant solutions are needed in redundancy system scenarios. This book celebrates S.S. Iyengar's accomplishments that led to his 2019 Institute of Electrical and Electronics Engineers (IEEE) Cybermatics Congress "Test of Time Award" for his work on creating Brooks-Iyengar Algorithm and its impact in advancing modern computing.

Today, billions of devices are Internet-connected, IoT standards and protocols are stabilizing, and technical professionals must increasingly solve real problems with IoT technologies. Now, five leading Cisco IoT experts present the first comprehensive, practical reference for making IoT work. IoT Fundamentals brings together knowledge previously available only in white papers, standards documents, and other hard-to-find sourcecior nowhere at all. The authors begin with a high-level overview of IoT and introduce key concepts needed to successfully design IoT solutions. Next, they walk through each key technology, protocol, and technical building block that combine into complete IoT solutions. Building on these essentials, they present several detailed use cases, including manufacturing, energy, utilities, smart-connected cities, transportation, mining, and public safety. Whatever your role or existing infrastructure, you'll gain deep insight what IoT applications can do, and what it takes to deliver them. Fully covers the principles and components of next-generation wireless networks built with Cisco IOT solutions such as IEEE 802.11 (Wi-Fi), IEEE 802.15.4-2015 (Mesh), and LoRaWAN Brings together real-world tips, insights, and best practices for designing and implementing next-generation wireless networks Presents start-to-finish configuration examples for common deployment scenarios Reflects the extensive first-hand experience of Cisco experts

Explore the foundations and applications of 5G technology This comprehensive guide contains practical information from telecommunications experts working at the forefront of 5G innovation. The authors discuss the foundations of 5G technology—not just the new standards, but the reasons and stories behind them. Fundamentals of 5G Communications features coverage of all major vertical domains with a focus on practical, commercial applications. This book serves both as an essential reference for telecom professionals and as a textbook for students learning about 5G. Coverage includes: 5G versus 4G: What's new? Deployment scenarios and architecture options The evolution of 5G architecture Numerology and slot structure Initial access and mobility Downlink control and data operation Uplink control and data operation Coexistence of 4G and 5G 5G in unlicensed and shared spectra Vertical expansion: URLLC, MTC, V2X Vertical expansion: broadcast and multicast Typical 5G commercial deployments A look toward the future of 5G

The light-duty vehicle fleet is expected to undergo substantial technological changes over the next several decades. New powertrain designs, alternative fuels, advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards. By the end of the next decade, cars and light-duty trucks will be more fuel efficient, weigh less, emit less air pollutants, have more safety features, and will be more expensive to purchase relative to current vehicles. Though the gasoline-powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030, such vehicles will be equipped with advanced technologies, materials, electronics and controls, and aerodynamics. And by 2030, the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation, including autonomous vehicles, will be well underway. What are these new technologies - how will they work, and will some technologies be more effective than others? Written to inform The United States Department of Transportation's National Highway Traffic Safety Administration (NHTSA) and Environmental Protection Agency (EPA) Corporate Average Fuel Economy (CAFE) and greenhouse gas (GHG) emission standards, this new report from the National Research Council is a technical evaluation of costs, benefits, and implementation issues of fuel reduction technologies for next-generation light-duty vehicles. Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles estimates the cost, potential efficiency improvements, and barriers to commercial deployment of technologies that might be employed from 2020 to 2030. This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017-2025 CAFE standards.

Deploying Windows 8 and Office 2013 Using Mdt 2012 Update 1

VMware NSX Automation Fundamentals

Networking Technologies, Protocols, and Use Cases for the Internet of Things

Deployment Fundamentals, Vol. 6

Fundamentals of Infrared Detector Materials

How Google Runs Production Systems

The essential guide to understanding and using firewalls to protect personal computers and your network An easy-to-read introduction to the most commonly deployed network security device Understand the threats firewalls are designed to protect against Learn basic firewall architectures, practical deployment scenarios, and common management and troubleshooting management checklists Increasing reliance on the Internet in both work and home environments has radically increased the vulnerability of computing systems to attack from a wide variety of threats. Firewall technology continues to be the most prevalent form of protection against existing and new threats to computers and networks. A full understanding of what and the differences among firewall types can make the difference between continued network integrity and complete network or computer failure. Firewall Fundamentals introduces readers to firewall concepts and explores various commercial and open source firewall implementations—including Cisco, Linksys, and Linux--allowing network administrators and small o configure their devices. Firewall Fundamentals is written in clear and easy-to-understand language and helps novice users understand what firewalls are and how and where they are used. It introduces various types of firewalls, first conceptually and then by explaining how different firewall implementations actually work. It also provides numerous implementation e personal and business-related scenarios, and explains how a firewall should be installed and configured. Additionally, generic firewall troubleshooting methodologies and common management tasks are clearly defined and explained.

Autonomous and Connected Heavy Vehicle Technology presents the fundamentals, definitions, technologies, standards and future developments of autonomous and connected heavy vehicles. This book provides insights into various issues pertaining to heavy vehicle technology and helps users develop solutions towards autonomous, connected, cognitive solutions th and cognition analysis. Various physical, cyber-physical and computational key points related to connected vehicles are covered, along with concepts such as edge computing, dynamic resource optimization, engineering process, methodology and future directions. The book also contains a wide range of case studies that help to identify research problems and an ana resource for graduate-level students from different engineering disciplines such as automotive and mechanical engineering, computer science, data science and business analytics combines both basic concepts and advanced level content from technical experts. Covers state-of-the-art developments and research in vehicle sensor technology, vehicle communication vehicle software and hardware integration Addresses challenges such as optimization, real-time control systems for distance and steering mechanism, and cognitive and predictive analysis Provides complete product development, commercial deployment, technological and performing costs and scaling needs

The Microsoft Official Academic Course (MOAC) textbook for MTA Windows Operating System Fundamentals Exam 98-349 2nd Edition is focused primarily on operating configurations and maintenance in Windows. MOAC offers an official MLO lab environment and Lab Manual to further aid in your study for this exam. Successful skills mastery of Exam 98-349 can help an enterprise and help them to differentiate job hunters in today's competitive job market. This exam will cover considerations into the following: \* Understanding Operating System Configurations. \* Installing and Upgrading Client Systems. \* Managing Applications. \* Managing Files and Folders. \* Managing Devices. \* Understanding Operating System Maintenance. The M Microsoft, turn-key Workforce training program that leads to professional certification and was authored for college instructors and college students. MOAC gets instructors ready to teach and students ready for work by delivering essential resources in 5 key areas: Instructor readiness, student software, student assessment, instruction resources, and learning va you are getting instructional support from Microsoft: materials that are accurate and make course delivery easy.

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 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.

Practical Cloud Security

System Center 2012 Configuration Manager

Trends, Advances, and Future Prospects

Firewall Fundamentals

Autonomous and Connected Heavy Vehicle Technology

**Get up to date quickly with clear, expert coverage of SCCM 2016 Mastering System Center Configuration Manager provides comprehensive coverage of Microsoft's powerful network software deployment tool, with a practical hands-on approach. Written by Santos Martinez, Peter Daalmans, and Brett Bennett, this guide walks you through SCCM 2016 with in-depth explanations anchored in real-world applications to get you up to speed quickly. Whether you're planning a new installation or migrating from a previous version of Configuration Manager, this book provides clear instruction and expert insight to get the job done right. Fully aligned with the latest release, the discussion covers the newest tools and features with examples that illustrate utility in a variety of contexts. System Center Configuration Manager (formerly SMS) is one of Microsoft's flagship products; the 2016 release has been updated with better Windows 10 and Windows Server 2016 compatibility, improved tools for managing non-Microsoft mobile devices in the cloud, and more. This book provides start-to-finish coverage and expert guidance on everything you need to get your system up to date.**

**Deploy software and operating systems Automate processes and customize configurations Monitor performance and troubleshoot issues Manage security in the cloud and on Virtual Machines SCCM 2016 improves your ability to handle the bring-your-own-device influx in managing mobile, streamlining the latest hiccup right into the everyday workflow. Mastering System Center Configuration Manager provides the practical coverage you need to get up and running seamlessly.**

**Written by world class authorities, this volume discusses formulation, sensory, and consumer testing, package design, commercial production, and product launch and marketing. Offering the same caliber of information that made the widely adopted first edition so popular, the second edition**

*introduces new concepts in staffing, identifying and measuring consumer desires, engineering scale-up from the kitchen, lab, or pilot plant; and generating product concepts. Applying insights from real life experience, contributors probe the retail environment, covering optimization, sensory analysis, package design, and the increasingly important role of the research chef or culinologist in providing the basic recipe.*

*More than half of the analytics and machine learning (ML) models created by organizations today never make it into production. Some of the challenges and barriers to operationalization are technical, but others are organizational. Either way, the bottom line is that models not in production can't provide business impact. This book introduces the key concepts of MLOps to help data scientists and application engineers not only operationalize ML models to drive real business change but also maintain and improve those models over time. Through lessons based on numerous MLOps applications around the world, nine experts in machine learning provide insights into the five steps of the model life cycle--Build, Preproduction, Deployment, Monitoring, and Governance--uncovering how robust MLOps processes can be infused throughout. This book helps you: Fulfill data science value by reducing friction throughout ML pipelines and workflows Refine ML models through retraining, periodic tuning, and complete remodeling to ensure long-term accuracy Design the MLOps life cycle to minimize organizational risks with models that are unbiased, fair, and explainable Operationalize ML models for pipeline deployment and for external business systems that are more complex and less standardized*

*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.*

**Microsoft Azure Essentials - Fundamentals of Azure**

**Mastering the Fundamentals**

**Best Practices for Transforming Legacy IT**

**Site Reliability Engineering**

**Fundamentals of Mobile Data Networks**

**Dear Aaron**

Get up and running with machine learning life cycle management and implement MLOps in your organization Key FeaturesBecome well-versed with MLOps techniques to monitor the quality of machine learning models in productionExplore a monitoring framework for ML models in production and learn about end-to-end traceability for deployed modelsPerform CI/CD to automate new implementations in ML pipelinesBook Description Engineering MLps presents comprehensive insights into MLOps coupled with real-world examples in Azure to help you to write programs, train robust and scalable ML models, and build ML pipelines to train and deploy models securely in production. The book begins by familiarizing you with the MLOps workflow so you can start writing programs to train ML models. Then you'll then move on to explore options for serializing and packaging ML models post-training to deploy them to facilitate machine learning inference, model interoperability, and end-to-end model traceability. You'll learn how to build ML pipelines, continuous integration and continuous delivery (CI/CD) pipelines, and monitor pipelines to systematically build, deploy, monitor, and govern ML solutions for businesses and industries. Finally, you'll apply the knowledge you've gained to build real-world projects. By the end of this ML book, you'll have a 360-degree view of MLOps and be ready to implement MLOps in your organization. What you will learnFormulate data governance strategies and pipelines for ML training and deploymentGet to grips with implementing ML pipelines, CI/CD pipelines, and ML monitoring pipelinesDesign a robust and scalable microservice and API for test and production environmentsCurate your custom CD processes for related use cases and organizationsMonitor ML models, including monitoring data drift, model drift, and application performanceBuild and maintain automated ML systemsWho this book is for This MLOps book is for data scientists, software engineers, DevOps engineers, machine learning engineers, and business and technology leaders who want to build, deploy, and maintain ML systems in production using MLOps principles and techniques. Basic knowledge of machine learning is necessary to get started with this book.

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

Bella is a lucky girl - she has a good job, an unbreakable circle of friends, and a fiance better than her wildest dreams. So, why does she want to ruin the best thing that ever happened to her by letting someone from her past meddle in her life? Mike is consumed with the need to marry Bella and make her his as soon as possible. There is nothing he wouldn't do for woman he loves, but letting her go is the one thing he'd rather avoid. Their love was fast, and their relationship was built over the miles. But does that mean that their future wasn't meant to be? When lies surface, and trust is shaken, will they choose each other? Or will someone else capture their happily ever after?

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 inspiration by reading the book, as many of the features and scenarios discussed fit all three environments. The book is packed with real-world scenarios taken from 15 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.

Python API Development Fundamentals

Why Evolution is True

An end-to-end reference guide to design, deploy, manage, and secure 802.11 wireless networks

Controller-Based Wireless LAN Fundamentals

Always You

Exam 98-349 Windows Operating System Fundamentals 2E

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 real-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 10 OS deployment using Microsoft Deployment Toolkit (MDT) 2013 Update 2. The book also include many real-word notes and troubleshooting tips and tricks. To get you going as quickly possible, the book sample scripts contains 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 settings using the MDT databases - Perform advanced configuration using web services - Deploy Office 2016, including the Click-to-Run Office 365 version

Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The first ebook in the series, Microsoft Azure Essentials: Fundamentals of Azure, introduces developers and IT professionals to the wide range of capabilities in Azure. The authors - both Microsoft MVPs in Azure - present both conceptual and how-to content for key areas, including: Azure Websites and Azure Cloud Services Azure Virtual Machines Azure Storage Azure Virtual Networks Databases Azure Active Directory Management tools Business scenarios Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the "Microsoft Azure Essentials" series.

Good game design happens when you view your game from as many perspectives as possible. Written by one of the world's top game designers, The Art of Game Design presents 100+ sets of questions, or different lenses, for viewing a game's design, encompassing diverse fields such as psychology, architecture, music, visual design, film, software engineering, theme park design, mathematics, puzzle design, and anthropology. This Second Edition of a Game Developer Front Line Award winner: Describes the deepest and most fundamental principles of game design Demonstrates how tactics used in board, card, and athletic games also work in top-quality video games Contains valuable insight from Jesse Schell, the former chair of the International Game Developers Association and award-winning designer of Disney online games The Art of Game Design, Second Edition gives readers useful perspectives on how to make better game designs faster. It provides practical instruction on creating world-class games that will be played again and again.

For all the discussion in the media about creationism and 'Intelligent Design', virtually nothing has been said about the evidence in question - the evidence for evolution by natural selection. Yet, as this succinct and important book shows, that evidence is vast, varied, and magnificent, and drawn from many disparate fields of science. The very latest research is uncovering a stream of evidence revealing evolution in action - from the actual observation of a species splitting into two, to new fossil discoveries, to the deciphering of the evidence stored in our genome. Why Evolution is True weaves together the many threads of modern work in genetics, palaeontology, geology, molecular biology, anatomy, and development to demonstrate the 'indelible stamp' of the processes first proposed by Darwin. It is a crisp, lucid, and accessible statement that will leave no one with an open mind in any doubt about the truth of evolution.

A Hardware Approach

Fundamentals of Machine Learning for Predictive Data Analytics, second edition

Review for the Examination for Professional Practice in Psychology

Fundamentals of Computer Programming with C#

Introducing MLOps

The Art of Game Design

Discover the fundamental characteristics of ultra-dense networks with this comprehensive text. Featuring a consistent mathematical description of ultra-dense small cell networks while also covering real-world issues such as network deployment, operation and optimization, this book investigates performance metrics of coverage probability and area spectral efficiency (ASE) and addresses the aspects of ultra-dense networks that make them different from current networks. Insightful intuitions, which will assist decision-makers as they migrate their services, are explained and mathematically proven. The book presents the latest review of research outcomes on ultra-dense networks, based on both theoretical analyses and network simulations, includes over 200 sources from 3GPP, the Small Cell Forum, journals and conference proceedings, and covers all other related and prominent topics. This is an ideal reference text for professionals who are dealing with the development, deployment, operation and maintenance of ultra-dense small cell networks, as well as researchers and graduate students in communications.

With their rapidly changing architecture and API-driven automation, cloud platforms come with unique security challenges and opportunities. This hands-on book guides you through security best practices for multivendor cloud environments, whether your company plans to move legacy on-premises projects to the cloud or build a new infrastructure from the ground up. Developers, IT architects, and security professionals will learn cloud-specific techniques for securing popular cloud platforms such as Amazon Web Services, Microsoft Azure, and IBM Cloud. Chris Dotson—an IBM senior technical staff member—shows you how to establish data asset management, identity and access management, vulnerability management, network security, and incident response in your cloud environment.

The choice of available infrared (IR) detectors for insertion into modern IR systems is both large and confusing. The purpose of this volume is to provide a technical database from which rational IR detector selection criteria evolve, and thus clarify the options open to the modern IR system designer. Emphasis concentrates mainly on high-performance IR systems operating in a tactical environment, although there also is discussion of both strategic environments and low- to medium-performance system requirements.

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 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.

Greenmantle

Cisco IOS XR Fundamentals

Introduction to Information Retrieval

The Enterprise Cloud

Deployment Fundamentals, Vol. 4

Day One Data Center Fundamentals

Some days, all you need is a message from a stranger. Ruby Santos knew exactly what she was getting herself into when she signed up to write a soldier overseas. The guidelines were simple: one letter or email a week for the length of his or her deployment. Care packages were optional. Been there, done that. She thought she knew what to expect. What she didn't count on was falling in love with the guy.

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.

The free book "Fundamentals of Computer Programming with C#" is a comprehensive computer programming tutorial that teaches programming, logical thinking, data structures and algorithms, problem solving and high quality code with lots of examples in C#. It starts with the first steps in programming and software development like variables, data types, conditional statements, loops and arrays and continues with other basic topics like methods, numeral systems, strings and string processing, exceptions, classes and objects. After the basics this fundamental programming book enters into more advanced programming topics like recursion, data structures (lists, trees, hash-tables and graphs), high-quality code, unit testing and refactoring, object-oriented principles (inheritance, encapsulation and polymorphism) and their implementation the C# language. It also covers fundamental topics that each good developer should know like algorithm design, complexity of algorithms and problem solving. The book uses C# language and Visual Studio to illustrate the programming concepts and explains some C# / .NET specific technologies like lambda expressions, extension methods and LINQ. The book is written by a team of developers lead by Svetlin Nakov who has 20+ years practical software development experience. It teaches the major programming concepts and way of thinking needed to become a good software engineer and the C# language in the meantime. It is a great start for anyone who wants to become a skillful software engineer. The books does not teach technologies like databases, mobile and web development, but shows the true way to master the basics of programming regardless of the languages, technologies and tools. It is good for beginners and intermediate developers who want to put a solid base for a successful career in the software engineering industry. The book is accompanied by free video lessons, presentation slides and mind maps, as well as hundreds of exercises and live examples. Download the free C# programming book, videos, presentations and other resources from <http://introprogramming.info>. Title: Fundamentals of Computer Programming with C# (The Bulgarian C# Programming Book) ISBN: 9789544007737 ISBN-13: 978-954-400-773-7 (9789544007737) ISBN-10: 954-400-773-3 (9544007733) Author: Svetlin Nakov & Co. Pages: 1132 Language: English Published: Sofia, 2013 Publisher: Faber Publishing, Bulgaria Web site: <http://www.introprogramming.info> License: CC-Attribution-Share-Alike Tags: free, programming, book, computer programming, programming fundamentals, ebook, book programming, C#, CSharp, C# book, tutorial, C# tutorial; programming concepts, programming fundamentals, compiler, Visual Studio, .NET, .NET Framework, data types, variables, expressions, statements, console, conditional statements, control-flow logic, loops, arrays, numeral systems, methods, strings, text processing, StringBuilder, exceptions, exception handling, stack trace, streams, files, text files, linear data structures, list, linked list, stack, queue, tree, balanced tree, graph, depth-first search, DFS, breadth-first search, BFS, dictionaries, hash tables, associative arrays, sets, algorithms, sorting algorithm, searching algorithms, recursion, combinatorial algorithms, algorithm complexity, OOP, object-oriented programming, classes, objects, constructors, fields, properties, static members, abstraction, interfaces, encapsulation, inheritance, virtual methods, polymorphism, cohesion, coupling, enumerations, generics, namespaces, UML, design patterns, extension methods, anonymous types, lambda expressions, LINQ, code quality, high-quality code, high-quality classes, high-quality methods, code formatting, self-documenting code, code refactoring, problem solving, problem solving methodology, 9789544007737, 9544007733

This unique text provides a comprehensive and systematic introduction to the theory and practice of mobile data networks. Covering basic design principles as well as analytical tools for network performance evaluation, and with a focus on system-level resource management, you will learn how state-of-the-art network design can enable you flexibly and efficiently to manage and trade-off various resources such as spectrum,

energy, and infrastructure investments. Topics covered range from traditional elements such as medium access, cell deployment, capacity, handover, and interference management, to more recent cutting-edge topics such as heterogeneous networks, energy and cost-efficient network design, and a detailed introduction to LTE (4G). Numerous worked examples and exercises illustrate the key theoretical concepts and help you put your knowledge into practice, making this an essential resource whether you are a student, researcher, or practicing engineer.

Mastering the Microsoft Deployment Toolkit

Developing New Food Products for a Changing Marketplace

A Guide for Secure Design and Deployment

Applying Technology to Learning

Fundamentals of GPS Receivers

EPPP Fundamentals

Despite the buzz surrounding the cloud computing, only a small percentage of organizations have actually deployed this new style of IT—so far. If you're planning your long-term cloud strategy, this practical book provides insider knowledge and actionable real-world lessons regarding planning, design, operations, security, and application transformation. This book teaches business and technology managers how to transition their organization's traditional IT to cloud computing. Rather than yet another book trying to sell or convince readers on the benefits of clouds, this book provides guidance, lessons learned, and best practices on how to design, deploy, operate, and secure an enterprise cloud based on real-world experience. Author James Bond provides useful guidance and best-practice checklists based on his field experience with real customers and cloud providers. You'll view cloud services from the perspective of a consumer and as an owner/operator of an enterprise private or hybrid cloud, and learn valuable lessons from successful and less-than-successful organization use-case scenarios. This is the information every CIO needs in order to make the business and technical decisions to finally execute on their journey to cloud computing. Get updated trends and definitions in cloud computing, deployment models, and for building or buying cloud services Discover challenges in cloud operations and management not foreseen by early adopters Use real-world lessons to plan and build an enterprise private or hybrid cloud Learn how to assess, port, and migrate legacy applications to the cloud Identify security threats and vulnerabilities unique to the cloud Employ a cloud management system for your enterprise (private or multi-provider hybrid) cloud ecosystem Understand the challenges for becoming an IT service broker leveraging the power of the cloud

Algorithms, Worked Examples, and Case Studies

Fundamentals of Brooks–Iyengar Distributed Sensing Algorithm

Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles

Rapidly build, test, and manage production-ready machine learning life cycles at scale

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