

20741b Networking With Windows Server 2016

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Intelligent Projects Using Python Santanu Pattanayak 2019-01-31 Implement machine learning and deep learning methodologies to build smart, cognitive AI projects using Python Key FeaturesA go-to guide to help you master AI algorithms and concepts8 real-world projects tackling different challenges in healthcare, e-commerce, and surveillanceUse TensorFlow, Keras, and other Python libraries to implement smart AI applicationsBook Description This book will be a perfect companion if you want to build insightful projects from leading AI domains using Python. The book covers detailed implementation of projects from all the core disciplines of AI. We start by covering the basics of how to create smart systems using machine learning and deep learning techniques. You will assimilate various neural network architectures such as CNN, RNN, LSTM, to solve critical new world challenges. You will learn to train a model to detect diabetic retinopathy conditions in the human eye and create an intelligent system for performing a video-to-text translation. You will use the transfer learning technique in the healthcare domain and implement style transfer using GANs. Later you will learn to build AI-based recommendation systems, a mobile app for sentiment analysis and a powerful chatbot for carrying customer services. You will implement AI techniques in the cybersecurity domain to generate Captchas. Later you will train and build autonomous vehicles to self-drive using reinforcement learning. You will be using libraries from the Python ecosystem such as TensorFlow, Keras and more to bring the core aspects of machine learning, deep learning, and AI. By the end of this book, you will be skilled to build your own smart models for tackling any kind of AI problems without any hassle. What you will learnBuild an intelligent machine translation system using seq2-seq neural translation machinesCreate AI applications using GAN and deploy smart mobile apps using TensorFlowTranslate videos into text using CNN and RNNImplement smart AI Chatbots, and integrate and extend them in several domainsCreate smart reinforcement, learning-based applications using Q-LearningBreak and generate CAPTCHA using Deep Learning and Adversarial Learning Who this book is for This book is intended for data scientists, machine learning professionals, and deep learning practitioners who are ready to extend their knowledge and potential in AI. If you want to build real-life smart systems to play a crucial role in every complex domain, then this book is what you need. Knowledge of Python programming and a familiarity with basic machine learning and deep learning concepts are expected to help you get the most out of the book

Introduction to Radar Using Python and MATLAB Lee Andrew (Andy) Harrison 2019-10-31 This comprehensive resource provides readers with the tools necessary to perform analysis of various waveforms for use in radar systems. It provides information about how to produce synthetic aperture (SAR) images by giving a tomographic formulation and implementation for SAR imaging. Tracking filter fundamentals, and each parameter associated with the filter and how each affects tracking performance are also presented. Various radar cross section measurement techniques are covered, along with waveform selection analysis through the study of the ambiguity function for each particular waveform from simple linear frequency modulation (LFM) waveforms to more complicated coded waveforms. The text includes the Python tool suite, which allows the reader to analyze and predict radar performance for various scenarios and applications. Also provided are MATLAB® scripts corresponding to the Python tools. The software includes a user-friendly graphical user interface (GUI) that provides visualizations of the concepts being covered. Users have full access to both the Python and MATLAB source code to modify for their application. With examples using the tool suite are given at the end of each chapter, this text gives readers a clear understanding of how important target scattering is in areas of target detection, target tracking, pulse integration, and target discrimination.

On Wings of Words Nelson Sartoris 2018-06-18 Poetry can describe the human condition and elevate the human spirit. It can help one navigate through life's storms, and learn to fly with a broken wing. It's about soaring above dark clouds despite knowing the crash landing that awaits us all. It's about flights of fear and flights of fantasy. Words are the wings of our species. Words can sing, just as birds can. Both embody the grandeur and pinnacle of the miracle of evolution. Words, like birds, are not meant to be caged.

GO! with Microsoft Word 2016 Comprehensive Shelley Gaskin 2016-04-20 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Teach the course YOU want in LESS TIME! In today's fast-moving, mobile environment, the GO! with Office 2016 series focuses on the job skills needed to succeed in the workforce. With job-related projects that put Microsoft Office® into context, students learn the how and why at the moment they need to know, all in the appropriate Microsoft procedural syntax. For Office 2016, the hallmark guided-practice to skill-mastery pathway is better than ever. Students have many opportunities to work live in Microsoft office to apply the skills they've learned. In addition, instructional projects are now available as grader projects in MyITLab, so students can work live in Office while receiving auto-graded feedback. These high-fidelity simulations match the text and provide an effective pathway for learning, practicing, and assessing their abilities. After completing the instructional projects, students can apply their skills with a variety of progressively challenging projects that require them to solve problems, think critically, and create on their own. New GO! Collaborate with Google projects allow students to apply their skills to a new environment that is already popular in many workplaces. Integrated Microsoft Office Specialist (MOS) objectives make GO! your one resource for learning Office, gaining critical productivity skills, and prepare for MOS certification. Also available with MyITLab MyITLab® is an online homework, tutorial, and assessment program designed for Information Technology (IT) courses, to engage students and improve results. HTML5 Simulation exercises and Live-in-Application Grader projects come with the convenience of auto-grading and instant feedback, so students learn more quickly and effectively, and build the critical skills needed for college and career success. Digital badges allow students to showcase their Microsoft Office or Computer Concepts competencies, keeping them motivated and focused on their future careers. Note: You are purchasing a standalone product; MyITLab does not come packaged with this content. Students, if interested in purchasing this title with MyITLab, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information.

Microsoft Office Word 2007 Step by Step Joan Lambert 2007-01-03 Experience learning made easy—and quickly teach yourself how to create impressive documents with Word 2007. With Step By Step, you set the pace—building and practicing the skills you need, just when you need them! Apply styles and themes to your document for a polished look Add graphics and text effects—and see a live preview Organize information with new SmartArt diagrams and charts Insert references, footnotes, indexes, a table of contents Send documents for review and manage revisions Turn your ideas into blogs, Web pages, and more Your all-in-one learning experience includes: Files for building skills and practicing the book's lessons Fully searchable eBook Bonus quick reference to the Ribbon, the new Microsoft Office interface Windows Vista Product Guide eBook—plus more resources and extras on CD For customers who purchase an ebook version of this title, instructions for downloading the CD files can be found in the ebook.

CELPiP Practice: Canadian English Language Proficiency Index Program(R) Practice Questions Complete Test Preparation Inc 2020-11-18 CELPIP practice questions, prepared by a dedicated team of exam experts, with full downloadable audio, detailed answer key, exam tips and multiple choice strategies!Here is what the CELPIP Practice Package can do for you: * Practice Tests are the best way to prepare for an exam and this is the book that you need to fully prepare for the CELPIP. * Here are 2 sets of CELPIP questions, prepared by a dedicated team of experts that will prepare you for the exam like nothing else will. * Practice Tests familiarize you with the exam format and types of questions, giving you more confidence when you take the exam. * Practice tests are a critical self-assessment tool that reveals your strengths and weaknesses. * Practice tests allow you to practice your exam time management - a critical exam-writing skill that can easily improve your grade substantially. * Practice tests reduce Test Anxiety, one of the main reasons for low marks on an exam. Hundreds of questions with detailed solutions and explanations to improve your understand of the basic concepts behind the questions.If you are taking the Canadian English Language Proficiency Index test - the Practice the CELPIP is an essential part of studying and passing!Each set of CELPIP Questions: Reading - Reading comprehension questions with full answer key and detailed step-by-step answer key with test tips and multiple choice strategies!Listening - Includes FULL AUDIO for listening comprehension practice - use easy scan QR codes or links for downloadable audio!Writing - Detailed instructions with walk-through examples and step-by-step help! Speaking - Detailed examples for all 8 speaking questions.CELPIP is a registered trademark of the University of British Columbia who are not involved in the production of, and do not endorse this publication.Practice tests are a critical self-assessment tool that reveals your strengths and weaknesses familiarize you with the exam format and types of questions, build your self confidence, and practice your exam time management. All of these can make a huge difference in your score! Practice Tests also reduce Test Anxiety, one of the main reasons for low marks on an exam.Why not do everything you can to get the best score on the CELPIP?

Exam 70-413 Designing and Implementing a Server Infrastructure Microsoft Official Academic Course 2014-10-27 This Microsoft Official Academic Course (MOAC) IT Professional curriculum prepares certification students for success every step of the way. This 70-413 Designing and Implementing a Server Infrastructure exam course is the first of a series of two exams Microsoft Certified Solutions Associates (MCSE) candidates are required to pass to gain the MCSE: Windows Server 2012 and Windows Server 2012 R2 certification. These MCSE exams test the skills and knowledge necessary to design, implement, and maintain a Windows Server 2012 infrastructure in an enterprise scaled, highly virtualized environment. Passing these exams confirms students' ability to plan, configure, and implement the Windows Server 2012 services, such as server deployment, server virtualization, and network access and infrastructure. This complete ready-to-teach MOAC program is mapped to all of the exam objectives.

Exam Ref 70-532 Developing Microsoft Azure Solutions Zoiner Tejada 2015-02-20 Prepare for Microsoft Exam 70-532--and help demonstrate your real-world mastery of Microsoft Azure solution development. Designed for experienced developers ready to advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the Microsoft Specialist level. Focus on the expertise measured by these objectives: Design and implement Websites Create and manage Virtual Machines Design and implement Cloud Services Design and implement a storage strategy Manage application and network services This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Will be valuable for Microsoft Azure developers, solution architects, DevOps engineers, and QA engineers Assumes you have experience designing, programming, implementing, automating, and monitoring Microsoft Azure solutions and that you are proficient with tools, techniques, and approaches for building scalable, resilient solutions Developing Microsoft Azure Solutions About the Exam Exam 70-532 focuses on the skills and knowledge needed to develop Microsoft Azure solutions that include websites, virtual machines, cloud services, storage, application services, and network services. About Microsoft Certification Passing this exam earns you a Microsoft Specialist certification in Microsoft Azure, demonstrating your expertise with the Microsoft Azure enterprise-grade cloud platform. You can earn this certification by passing Exam 70-532, Developing Microsoft Azure Solutions; or Exam 70-533, Implementing Microsoft Azure Infrastructure Solutions; or Exam 70-534, Architecting Microsoft Azure Solutions. See full details at: microsoft.com/learning

Mental and Emotional Release Dr. Matt James 2017-10-03 Imagine how different your life would be if you were free from your baggage, your limitations, and your pain? As a therapist, imagine having an effective tool to help your clients become free of depression, PTSD and anxiety within hours rather than years? In Mental and Emotional Release, Dr. Matt James introduces an incredible therapeutic processMER proven to be effective in treating everything from bedwetting to bulimia, PTSD to migraines within hours, not years. This is the type of result we all want for all of our patients. But frankly, before I started introducing MER to my patients, I rarely saw it and definitely didnt see it happening as quickly as this. Dr. Larry Momaya, psychiatrist Written in a language both professionals and non-professionals can understand, Mental and Emotional Release offers real life case studies, an overview of MER and its foundation, step by step scripts to follow, and clinical efficacy studies comparing MER to other therapies. Its straight-forward and targeted. Patients dont have to re-live any traumas from the past to resolve them, and they dont have to go into deep hypnotic trance. For 80-85% of my patients, MER gives tremendous relief from their symptoms in the very first session. Dr. Patrick Scott, psychologist

MCSA Windows Server 2016 Study Guide: Exam 70-741 William Panek 2017-08-24 Ultimate coverage and hands-on practice for the second MCSA Windows Server 2016 exam MCSA Windows Server 2016 Study Guide: Exam 70-741 offers complete preparation for the second exam in the MCSA series. With comprehensive coverage of all exam objectives led by a four-time Microsoft MVP winner, this book is your ideal companion for thorough preparation. Optimize your study time with hundreds of practice questions that pinpoint your weak spots, and try your hand at real-world application with exercises that reflect the MCSA skill set. Access to the Sybex interactive online practice test environment provides electronic flashcards, a glossary, practice exams and more, so you can study anywhere, any time; this invaluable study guide goes beyond mere review to help you enter the exam with full confidence in your abilities. The Microsoft Certified Solutions Associate certification puts your skills in demand—but first you must pass a series of three exams; exam 70-741 is the second step, testing your Windows 2016 networking knowledge and skills. This book covers everything you need to know, giving you the exam-day advantage of comprehensive prep. Master 100 percent of the exam objective domains Learn how these skills are applied in real-world scenarios Solidify your understanding with hands-on exercises Access electronic

flashcards, practice exams, and more! How well do you deploy, manage, and maintain a server? Can you expertly configure file and print servers, network access and services, and network policy server infrastructure? Have you configured and managed Active Directory and Group Policy? Don't leave anything to chance—MCSA Windows Server 2016 Study Guide: Exam 70-741 tells you all you need to know to pass with flying colors.

Pediatric Cardiology Walter H. Johnson 2014-02-03 Caring for children with heart disease is extremely complex, requiring a different and often tailor-made approach compared with adults with similar cardiac problems. Built on the success of previous editions and brought to you by a stellar author team, Pediatric Cardiology: The Essential Pocket Guide provides a unique, concise and extremely practical overview of heart disease in children. From history-taking, physical examination, ECG, and chest X-ray – the basics that enable clinicians to uncover possible problems and eliminate areas of false concern – it goes on to examine the range of more complex topics in the diagnosis and treatment/management of childhood cardiovascular disease. New to this edition you'll find: An enhanced section on imaging including recent advances in cardiac MRI and fetal echocardiography. New techniques in genetic testing for heart disease in special populations. Much more emphasis on the importance of echocardiography in understanding the pathophysiology of congenital cardiac malformations. Expanded section on cardiac conditions in the neonate, specifically on prenatal diagnosis and management, neonatal screening for congenital heart disease, and hypoplastic left heart syndrome. Expanded and updated congestive cardiac failure section, including the latest in genetic and metabolic causes of heart failure, and medical/surgical treatment options; discussion of bridging therapies; essentials of transplantation, including common drug treatment regimens, clinical recognition of treatment complications and rejection, outcomes, morbidity and survival. In addition, every chapter is fully updated with the very latest clinical guidelines and management options from the AHA, ACC and ESC. Pediatric Cardiology: The Essential Pocket Guide, 3rd edition, is quite simply a must-have guide for all members of the multidisciplinary team managing children suffering from heart disease.

Computational Diffusion MRI Elisenda Bonet-Carne 2021-11-07 This volume gathers papers presented at the Workshop on Computational Diffusion MRI (CDMRI 2019), held under the auspices of the International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), which took place in Shenzhen, China on October 17, 2019. This book presents the latest advances in the rapidly expanding field of diffusion MRI. It shares new perspectives on the latest research challenges for those currently working in the field, but also offers a valuable starting point for anyone interested in learning about computational techniques in diffusion MRI. The book includes rigorous mathematical derivations, a wealth of rich, full-colour visualisations and extensive clinically relevant results. As such, it will be of interest to researchers and practitioners in the fields of computer science, MRI physics and applied mathematics. Readers will find contributions covering a broad range of topics, from the mathematical foundations of the diffusion process and signal generation, to new computational methods and estimation techniques for the in vivo recovery of microstructural and connectivity features, as well as diffusion-relaxometry and frontline applications in research and clinical practice. This edition includes invited works from high-profile researchers with a specific focus on three new and important topics that are gaining momentum within the diffusion MRI community, including diffusion MRI signal acquisition and processing strategies, machine learning for diffusion MRI, and diffusion MRI outside the brain and clinical applications.

The Art of XCOM 2 2K Staff 2016-01-12 In The Art of XCOM 2, readers get a behind-the-scenes look at the incredible concept art created for the new game and hear from key developers and artists about the challenges, secrets, and rewards of creating this landmark series. Also covered in the stunning book will be the game's five new classes of resistance fighters and their dynamic weapons, powerful new alien species and their vehicles, and the brave new world of XCOM 2.

Books in Print 1991

The TOGAF® Standard, Version 9.2 The Open Group 2018 The TOGAF® Standard, a standard of The Open Group, is a proven Enterprise Architecture methodology and framework used by the world's leading organizations to improve business efficiency. It is the most prominent and reliable Enterprise Architecture standard, ensuring consistent standards, methods, and communication among Enterprise Architecture professionals. Those professionals fluent in the TOGAF approach enjoy greater industry credibility, job effectiveness, and career opportunities. The TOGAF approach helps practitioners avoid being locked into proprietary methods, utilize resources more efficiently and effectively, and realize a greater return on investment.

Public Works; 47 Anonymous 2021-09-10 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Building Energy Management Systems Geoff Levermore 2013-07-04 Energy management systems are used to monitor building temperature inside and outside buildings and control the boilers and coolers. Energy efficiency is a major cost issue for commerce and industry and of growing importance on university syllabuses. Fully revised and updated, this text considers new developments in the control of low energy and HVAC systems and contains two new chapters. Written for practising engineers (essential for control engineers) and energy managers in addition to being essential reading for under/postgraduate courses in building services and environmental engineering.

Philippine Politics and Society in the Twentieth Century Eva-Lotta E. Hedman 2000 This work addresses key topics which should be of interest to the academic and non-academic reader, such as the national level electoral politics, economic growth, the Philippine Chinese, law and order, opposition, the Left, and local and ethnic politics.

The Australian Official Journal of Trademarks 1907

New International Frontiers in Child Sexual Abuse Ben Mathews 2018-10-25 This book offers a timely and detailed exploration and analysis of key contemporary issues and challenges in child sexual abuse, which holds great relevance for scholarly, legal, policy, professional and clinical audiences worldwide. The book draws together the best current evidence about the nature, aetiology, contexts, and sequelae of child sexual abuse. It explores the optimal definition of child sexual abuse, considers sexual abuse in history, and explores new theoretical understandings of children's rights and other key theories including public health and the Capabilities Approach, and their relevance to child sexual abuse prevention and responses. It examines a selection of the most pressing legal, theoretical, policy and practical challenges in child sexual abuse in the modern world, in developed and developing economies, including institutional child sexual abuse, female genital cutting, child marriage, the use of technology for sexual abuse, and the ethical responsibility and legal liability of major state and religious organisations, and individuals. It examines recent landmark legal and policy developments in all of these areas, drawing in particular on extensive developments from Australia in the wake of its Royal Commission Into Institutional Responses to Child Sexual Abuse. It also considers the best evidence about promising strategies and future promising directions in enhancing effective prevention, intervention and responses to child sexual abuse.

ITIL 4 Managing Professional Axelos 2020 Discussing concepts, principles, methods, and techniques, this book covers all types of engagement and interaction between a service provider and its customers, users, suppliers, and partners. --

Exam Ref 70-410 Craig Zacker 2014 Annotation Fully updated for Windows Server 2012 R2 Prepare for Microsoft Exam 70-410 - and help demonstrate your real-world mastery of implementing and configuring core services in Windows Server 2012 R2. Designed for experienced IT professionals ready to advance their status, "Exam Ref" focuses on the critical thinking and decision making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: Install and configure serversConfigure server roles and featuresConfigure Hyper-VDeploy and configure core network servicesInstall and administer Active DirectoryCreate and manage Group Policy This Microsoft "Exam Ref" Organizes its coverage by exam objectives. Features strategic, what-if scenarios to challenge you.

PostgreSQL Bruce Momjian 2001 The open source PostgreSQL database is soaring in popularity, as thousands of database and web professionals discover its powerful features, transaction support, performance, and industrial-strength scalability. In this book, a founding member of the PostgreSQL development team introduces everything you need to know to succeed with PostgreSQL, from basic SQL commands through database administration and optimization. PostgreSQL assumes no previous database expertise: it establishes a firm foundation of basic concepts and commands before turning to PostgreSQL's advanced, innovative capabilities. Bruce Momjian walks readers step-by-step from their first database queries through the complex queries needed to solve real-world problems. He presents proper query syntax, then explores the value and use of each key SQL commands in working applications. Learn to manipulate and update databases, customize queries, work with SQL aggregates, use joins, combine SELECTs with subqueries, work with triggers and transactions, import and export data, use PostgreSQL query tools, and more. Discover PostgreSQL techniques for server-side programming and multi-user control, and master PostgreSQL's interfaces to C, C++, ODBC, JDBC, Perl, and Tcl/TK. You'll also find detailed coverage of PostgreSQL administration, including backups, troubleshooting, and access configuration.

70-741 Networking with Windows Server 2016 Lab Manual EPUB Reg Card Microsoft Official Academic Course 2017-06-19

Microsoft Exchange Server Training Kay Unkroth 1998 Providing an introduction to the core technologies of Microsoft Exchange Server, this book shows how to implement and administer Microsoft Exchange in a single-site or multiple-site environment. The kit covers installing and configuring the Microsoft Outlook desktop information manager client. Cover Title

Mixed Integer Nonlinear Programming Jon Lee 2011-12-02 Many engineering, operations, and scientific applications include a mixture of discrete and continuous decision variables and nonlinear relationships involving the decision variables that have a pronounced effect on the set of feasible and optimal solutions. Mixed-integer nonlinear programming (MINLP) problems combine the numerical difficulties of handling nonlinear functions with the challenge of optimizing in the context of nonconvex functions and discrete variables. MINLP is one of the most flexible modeling paradigms available for optimization; but because its scope is so broad, in the most general cases it is hopelessly intractable. Nonetheless, an expanding body of researchers and practitioners – including chemical engineers, operations researchers, industrial engineers, mechanical engineers, economists, statisticians, computer scientists, operations managers, and mathematical programmers – are interested in solving large-scale MINLP instances.

A Common Self 2021-02-20 A collection of ideas and artistic renderings - with an introduction by Jeff Chelf. With image contributions by 18 artists ranging from photos, illustrations and augmented reality. Book design by Hong Huo.

Penetration Testing with Perl Douglas Berdeaux 2015-01-05 If you are an expert Perl programmer interested in penetration testing or information security, this guide is designed for you. However, it will also be helpful for you even if you have little or no Linux shell experience.

Medical Quality Management Angelo P. Giardino 2020-08-31 This comprehensive medical textbook is a compendium of the latest information on healthcare quality. The text provides knowledge about the theory and practical applications for each of the core areas that comprise the field of medical quality management as well as insight and essential briefings on the impact of new healthcare technologies and innovations on medical quality and improvement. The third edition provides significant new content related to medical quality management and quality improvement, a user-friendly format, case studies, and updated learning objectives. This textbook also serves as source material for the American Board of Medical Quality in the development of its core curriculum and certification examinations. Each chapter is designed for a review of the essential background, precepts, and exemplary practices within the topical area: Basics of Quality Improvement Data Analytics for the Improvement of Healthcare Quality Utilization Management, Case Management, and Care Coordination Economics and Finance in Medical Quality Management External Quality Improvement – Accreditation, Certification, and Education The Interface Between Quality Improvement and Law Ethics and Quality Improvement With the new edition of Medical Quality Management: Theory and Practice, the American College of Medical Quality presents the experience and expertise of its contributors to provide the background necessary for healthcare professionals to assume the responsibilities of medical quality management in healthcare institutions, provide physicians in all medical specialties with a core body of knowledge related to medical quality management, and serve as a necessary guide for healthcare administrators and executives, academics, directors, medical and nursing students and residents, and physicians and other health practitioners.

Microsoft Official Academic Course Microsoft Press 2004-01-01 Easy to follow, step-by-step lessons enable students to quickly and efficiently learn the features of Microsoft PowerPoint 2003 and how to use them at school, at home, and in the workplace. This Microsoft Official Academic Course offers friendly, straightforward instruction with a focus on real-world business scenarios. Included with the book is a 180-day trial version of Microsoft Office Professional 2003 and dynamic interactive tutorials from the Microsoft eLearning Library. Skills covered in the book correspond to the

objectives tested on the Microsoft Office Specialist examination. A complete instructor support program is available with the text.

Military Construction Program Central Intelligence Agency 2021-09-09 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Analyzing Data with Power BI and Power Pivot for Excel Alberto Ferrari 2017-04-28 Renowned DAX experts Alberto Ferrari and Marco Russo teach you how to design data models for maximum efficiency and effectiveness. How can you use Excel and Power BI to gain real insights into your information? As you examine your data, how do you write a formula that provides the numbers you need? The answers to both of these questions lie with the data model. This book introduces the basic techniques for shaping data models in Excel and Power BI. It's meant for readers who are new to data modeling as well as for experienced data modelers looking for tips from the experts. If you want to use Power BI or Excel to analyze data, the many real-world examples in this book will help you look at your reports in a different way—like experienced data modelers do. As you'll soon see, with the right data model, the correct answer is always a simple one! By reading this book, you will:

- Gain an understanding of the basics of data modeling, including tables, relationships, and keys
- Familiarize yourself with star schemas, snowflakes, and common modeling techniques
- Learn the importance of granularity
- Discover how to use multiple fact tables, like sales and purchases, in a complex data model
- Manage calendar-related calculations by using date tables
- Track historical attributes, like previous addresses of customers or manager assignments
- Use snapshots to compute quantity on hand
- Work with multiple currencies in the most efficient way
- Analyze events that have durations, including overlapping durations
- Learn what data model you need to answer your specific business questions

About This Book • For Excel and Power BI users who want to exploit the full power of their favorite tools • For BI professionals seeking new ideas for modeling data

MCSA Windows Server 2016 Complete Study Guide William Panek 2018-02-23 Over 1,000 pages of comprehensive exam prep for the entire MCSA Windows Server 2016 certification process MCSA Windows Server 2016 Complete Study Guide is your ultimate companion on the journey to earning the MCSA Windows Server 2016 certification. Covering required Exams 70-740, 70-741, and 70-742, plus preparing you to take the composite upgrade Exam 70-743 (not covered separately in this book), this Study Guide walks you through 100 percent of all exam objectives to help you achieve complete readiness. Hands-on exercises strengthen your practical skills, and real-world scenarios help you understand how these skills are used on the job. Over 500 practice questions allow you to test your understanding along the way, and the online test bank gives you access to electronic flashcards, practice exams, and over an hour of expert video demonstrations. From basic networking concepts and services to Active Directory and Hyper-V, this guide provides full coverage of critical MCSA concepts and skills. This new edition has been updated for the latest MCSA Windows Server 2016 exam releases, featuring coverage of all the objective domains. This value-priced guide is three books in one, giving you the most comprehensive exam prep experience for all required MCSA exams. Whether you're starting from the beginning, or upgrading from the MCSA Windows Server 2012 R2 certification, arm yourself with the ultimate tool for complete and comprehensive preparation. Study 100 percent of the objectives for all three MCSA exams, plus the upgrade exam Practice your skills using hands-on exercises and real-world scenarios Test your knowledge with over 500 challenging practice questions Access online study aids including flashcards, video demos, and more! The MCSA exams test your knowledge and skill in installation, configuration, deployment, and administration using a variety of networking tools. The scope is broad, but your complete understanding of the most up-to-date concepts and practices is critical to your success on the exam—and on the job. MCSA Windows Server 2016 Complete Study Guide covers everything you need to know, and gives you the tools to help you learn it.

Data Science and Predictive Analytics Ivo D. Dinov 2018-08-27 Over the past decade, Big Data have become ubiquitous in all economic sectors, scientific disciplines, and human activities. They have led to striking technological advances, affecting all human experiences. Our ability to manage, understand, interrogate, and interpret such extremely large, multisource, heterogeneous, incomplete, multiscale, and incongruent data has not kept pace with the rapid increase of the volume, complexity and proliferation of the deluge of digital information. There are three reasons for this shortfall. First, the volume of data is increasing much faster than the corresponding rise of our computational processing power (Kryder's law > Moore's law). Second, traditional discipline-bounds inhibit expeditious progress. Third, our education and training activities have fallen behind the accelerated trend of scientific, information, and communication advances. There are very few rigorous instructional resources, interactive learning materials, and dynamic training environments that support active data science learning. The textbook balances the mathematical foundations with dexterous demonstrations and examples of data, tools, modules and workflows that serve as pillars for the urgently needed bridge to close that supply and demand predictive analytic skills gap. Exposing the enormous opportunities presented by the tsunami of Big data, this textbook aims to identify specific knowledge gaps, educational barriers, and workforce readiness deficiencies. Specifically, it focuses on the development of a transdisciplinary curriculum integrating modern computational methods, advanced data science techniques, innovative biomedical applications, and impactful health analytics. The content of this graduate-level textbook fills a substantial gap in integrating modern engineering concepts, computational algorithms, mathematical optimization, statistical computing and biomedical inference. Big data analytic techniques and predictive scientific methods demand broad transdisciplinary knowledge, appeal to an extremely wide spectrum of readers/learners, and provide incredible opportunities for engagement throughout the academy, industry, regulatory and funding agencies. The two examples below demonstrate the powerful need for scientific knowledge, computational abilities, interdisciplinary expertise, and modern technologies necessary to achieve desired outcomes (improving human health and optimizing future return on investment). This can only be achieved by appropriately trained teams of researchers who can develop robust decision support systems using modern techniques and effective end-to-end protocols, like the ones described in this textbook.

- A geriatric neurologist is examining a patient complaining of gait imbalance and posture instability. To determine if the patient may suffer from Parkinson's disease, the physician acquires clinical, cognitive, phenotypic, imaging, and genetics data (Big Data). Most clinics and healthcare centers are not equipped with skilled data analytic teams that can wrangle, harmonize and interpret such complex datasets. A learner that completes a course of study using this textbook will have the competency and ability to manage the data, generate a protocol for deriving biomarkers, and provide an actionable decision support system. The results of this protocol will help the physician understand the entire patient dataset and assist in making a holistic evidence-based, data-driven, clinical diagnosis.
- To improve the return on investment for their shareholders, a healthcare manufacturer needs to forecast the demand for their product subject to environmental, demographic, economic, and bio-social sentiment data (Big Data). The organization's data-analytics team is tasked with developing a protocol that identifies, aggregates, harmonizes, models and analyzes these heterogeneous data elements to generate a trend forecast. This system needs to provide an automated, adaptive, scalable, and reliable prediction of the optimal investment, e.g., R&D allocation, that maximizes the company's bottom line. A reader that complete a course of study using this textbook will be able to ingest the observed structured and unstructured data, mathematically represent the data as a computable object, apply appropriate model-based and model-free prediction techniques. The results of these techniques may be used to forecast the expected relation between the company's investment, product supply, general demand of healthcare (providers and patients), and estimate the return on initial investments.

Exam Ref 70-741 Networking with Windows Server 2016 Andrew Warren 2016-12-27 Microsoft Exam 70-741 is for IT Pros interested in enhancing their skills for the latest version of Windows Server. This exam validates skills and knowledge for configuring advanced tasks required to deploy, manage, and maintain a Windows Server 2016 infrastructure, such as fault tolerance, certificate services, and identity federation. Passing this exam along with two other exams is required for MCSA and MCSE certifications. The Exam Ref is the official study guide for Microsoft certification exam 70-741. Featuring concise, objective-by-objective reviews and strategic case scenarios and Thought Experiments, exam

candidates get professional-level preparation for the exam. The Exam Ref helps candidates maximize their performance on the exam and sharpen their job-role skills. It organizes material by the exam's objective domains Focus is on the skills measured on the exam:

- Implement Domain Name System (DNS)
- Implement DHCP
- Implement IP Address Management (IPAM)
- Implement network connectivity and remote access solutions
- Implement core and distributed network solutions
- Implement an advanced network infrastructure

This Microsoft Exam Ref:

- Organizes its coverage by the "Skills measured" posted on the exam webpage
- Features strategic, what-if scenarios to challenge you
- Points to in-depth material by topic for exam candidates needing additional review
- Assumes you are an IT pro looking to validate your skills in and knowledge of installing and configuring Windows Server 2016

Windows Server 2016 Cookbook Jordan Krause 2016-11-21 Saute your way through more than 100 hands-on recipes designed to prepare any server administrator to work with Windows Server 2016 About This Book Get the first book on the market to unleash the power of Windows Server 2016, which improves the lives of thousands of enterprise users Be the first to leverage the advent of Containers and Nano Server on Windows Server 2016, which utilizes the resources efficiently and increases productivity. This practical, recipe-based approach helps you to delivering global-scale cloud services into your infrastructure using Windows Server 2016 Who This Book Is For This book is for system administrators and IT professionals with experience in Windows Server 2012 R2 environments who are looking to acquire the skills and knowledge necessary to manage and maintain the core infrastructure required for a Windows Server 2016 environment. What You Will Learn Build the infrastructure required for a successful Windows network Navigate the new Server 2016 interface efficiently Implement solid networking and security practices into your Windows Server environment Design your own PKI and start issuing certificates today Explore the brand-new Nano Server functionality Enable nested virtualization on Hyper-V and Server Connect your remote laptops back to the corporate network using Microsoft's own remote access technologies, including DirectAccess Provide a centralized point for users to access applications and data by configuring Remote Desktop Services Compose optimal Group Policies Facilitate task automation with PowerShell 5.0 scripting In Detail This hands-on Cookbook is stuffed full of practical recipes that will help you handle the essential administrative tasks in Windows Server 2016. You'll start by familiarizing yourself with the look and feel of Windows Server 2016, and will then learn how to navigate through some daily tasks using the graphical interface. You will see how to compose optimal Group Policies and facilitate task automation with PowerShell 5.0 scripting. We will also take a look at the functions available to provide remote network access to your traveling users, and explore the much anticipated Nano Server and Hyper-V built-in integration support that is brand new in Windows Server 2016. By the end of this book, you will know how to take your Windows Server 2016-powered server and turn it into any common infrastructure role that might be required in your company. Style and approach The book follows a recipe-based approach that starts with an introduction and the installation of Windows Server 2016, then dives into the powerful features, and then ends with the concept of security.

Animal Eyes Michael F. Land 2012-03-01 Animal Eyes provides a comparative account of all known types of eye in the animal kingdom, outlining their structure and function with an emphasis on the nature of the optical systems and the physical principles involved in image formation. A universal theme throughout the book is the evolution and taxonomic distribution of each type of eye, and the roles of different eye types in the behaviour and ecology of the animals that possess them. In comparing the specific capabilities of eyes, it considers the factors that lead to good resolution of detail and the ability to function under a wide range of light conditions. This new edition is fully updated throughout, incorporating more than a decade of new discoveries and research.

Biomedical Natural Language Processing Kevin Bretonnel Cohen 2014-02-15 Biomedical Natural Language Processing is a comprehensive tour through the classic and current work in the field. It discusses all subjects from both a rule-based and a machine learning approach, and also describes each subject from the perspective of both biological science and clinical medicine. The intended audience is readers who already have a background in natural language processing, but a clear introduction makes it accessible to readers from the fields of bioinformatics and computational biology, as well. The book is suitable as a reference, as well as a text for advanced courses in biomedical natural language processing and text mining.

Mastering Windows Server 2016 Jordan Krause 2016-10-25 A comprehensive and practical guide to Windows Server 2016 About This Book In-depth coverage of new features of Windows Server 2016 Gain the necessary skills and knowledge to design and implement Microsoft Server 2016 in enterprise environment Know how you can support your medium to large enterprise and leverage your experience in administering Microsoft Server 2016, A practical guide to administering Windows server 2016 Who This Book Is For The book is targeted at System Administrators and IT professionals who would like to design and deploy Windows Server 2016 (physical and logical) Enterprise infrastructure. Previous experience of Windows Server operating systems and familiarity with networking concepts is assumed. System administrators who are upgrading or migrating to Windows Server 2016 would also find this book useful. What You Will Learn Familiarize yourself with Windows Server 2016 ideology, the core of most datacenters running today New functions and benefits provided only by the new Windows Server 2016 Get comfortable working with Nanoserver Secure your network with new technologies in Server 2016 Harden your Windows Servers to help keep those bad guys out! Using new built-in integration for Docker with this latest release of Windows Server 2016 Virtualize your datacenter with Hyper-V In Detail Windows Server 2016 is the server operating system developed by Microsoft as part of the Windows NT family of operating systems, developed concurrently with Windows 10. With Windows Server 2016, Microsoft has gotten us thinking outside of the box for what it means to be a system administration, and comes with some interesting new capabilities. These are exciting times to be or to become a server administrator! This book covers all aspects of administration level tasks and activities required to gain expertise in Microsoft Windows Server 2016. You will begin by getting familiar and comfortable navigating around in the interface. Next, you will learn to install and manage Windows Server 2016 and discover some tips for adapting to the new server management ideology that is all about centralized monitoring and configuration. You will deep dive into core Microsoft infrastructure technologies that the majority of companies are going to run on Server 2016. Core technologies such as Active Directory, DNS, DHCP, Certificate Services, File Services, and more. We will talk about networking in this new operating system, giving you a networking toolset that is useful for everyday troubleshooting and maintenance. Also discussed is the idea of Software Defined Networking. You will later walk through different aspects of certificate administration in Windows Server 2016. Three important and crucial areas to cover in the Remote Access role -- DirectAccess, VPN, and the Web Application Proxy -- are also covered. You will then move into security functions and benefits that are available in Windows Server 2016. Also covered is the brand new and all-important Nano Server! We will incorporate PowerShell as a central platform for performing many of the functions that are discussed in this book, including a chapter dedicated to the new PowerShell 5.0. Additionally, you will learn about the new built-in integration for Docker with this latest release of Windows Server 2016. The book ends with a discussion and information on virtualizing your datacenter with Hyper-V. By the end of this book, you will have all the ammunition required to start planning for and implementing Windows Server 2016. Style and approach This book offers a practical and wide coverage of all features of brand new Microsoft Server 2016 along with tips on daily administration tasks.

The D Programming Language Andrei Alexandrescu 2010-06-02 D is a programming language built to help programmers address the challenges of modern software development. It does so by fostering modules interconnected through precise interfaces, a federation of tightly integrated programming paradigms, language-enforced thread isolation, modular type safety, an efficient memory model, and more. The D Programming Language is an authoritative and comprehensive introduction to D. Reflecting the author's signature style, the writing is casual and conversational, but never at the expense of focus and precision. It covers all aspects of the language (such as expressions, statements, types, functions, contracts, and modules), but it is much more than an enumeration of features. Inside the book you will find In-depth explanations, with idiomatic examples, for all language features How feature groups support major programming paradigms Rationale and best-use advice for each major feature Discussion of cross-cutting issues, such as error handling, contract programming, and concurrency Tables, figures, and "cheat sheets" that serve as a handy quick reference for day-to-day problem solving with D Written for the working programmer, The D Programming Language not only introduces the D language—it presents a compendium of good practices and idioms to help both your coding with D and your coding in general.