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This book constitutes the refereed proceedings of the 6th International Conference on Big Data analytics, BDA 2018, held in Warangal, India, in December 2018. The 29 papers presented in this volume were carefully reviewed and selected from 93 submissions. The papers are organized in topical sections named: big data analytics: vision and perspectives; financial data analytics and data streams; web and social media data; big data systems and frameworks; predictive analytics in healthcare and agricultural domains; and machine learning and pattern mining.

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Get the definitive guide on designing applications on the Microsoft application platform—straight from the Microsoft patterns & practices team. Learn how to choose the most appropriate architecture and the best implementation technologies that the Microsoft application platform offers applications developers. Get critical design recommendations and guidelines organized by application type—from Web, mobile, and rich Internet applications to Office Business Applications. You™ also get links to additional technical resources that can help with your application development. Master Windows 10 installation and

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configuration, including new technologies The MCSA Windows 10 Study Guide is the only comprehensive resource you'll need to prepare for Exam 70-698. You'll find expert coverage of 100% of all exam objectives led by expert Microsoft MVP, William Panek. Quickly master the concepts and processes involved in Windows 10 installation and configuration. The Sybex superior study tools and online learning environment include: system requirements, devices, core services, networking, storage, data access and usage, maintenance, updates, data recovery, and more. Real-world scenarios bring on the job experience while hands-on

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exercises provide practical instruction on critical techniques, and the Sybex online learning environment gives you access to electronic flashcards for last minute review, an assessment test, and bonus practice exams so you can be confident on exam day. Exam 70-698 is the first of two exams for the MCSA certification. Addressing local and desktop deployments, these topics form the foundation of what's to come. This Sybex Study Guide gives you the tools you need along with expert content so you can build the essential knowledge base and master the key concepts. Clarify processes with hands-on exercises Identify knowledge gaps through chapter review questions

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Test your understanding with online bonus practice exams and more

With a 90-percent market share, Windows is the world's number-one desktop OS. While it may look similar to Windows 8, Windows 10 includes a number of enhanced features that specialists need to know, and MCSA candidates must be able to demonstrate a clear understanding of how to work with these new technologies. MCSA Windows 10 Study Guide: Exam 70-698 is your complete guide to Windows 10 installation and configuration, with expert instruction and practical exam preparation.

Internet 2.0 (previously called the Internet of Things) presents a

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tantalizing vision of bridging the cyber and physical worlds to forge a seamless planet-wide infrastructure in which cyber resources and physical objects can interact without human intervention. The technology needed to build the infrastructure already exists.

However, more than a d
Microsoft Application Virtualization
Advanced Guide
DEXA 2018 International
Workshops, BDMICS, BLOKDD,
and TIR, Regensburg, Germany,
September 3–6, 2018, Proceedings
The Next Avatar of the Internet
A Craftsman's Guide to Software
Structure and Design
Microsoft System Center Integrated
Cloud Platform

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Practical Software Architecture
Solutions from the Legendary
Robert C. Martin (‘‘Uncle Bob’’) By
applying universal rules of software
architecture, you can dramatically
improve developer productivity
throughout the life of any software
system. Now, building upon the
success of his best-selling books
Clean Code and The Clean Coder,
legendary software craftsman
Robert C. Martin (‘‘Uncle Bob’’)
reveals those rules and helps you
apply them. Martin’s Clean
Architecture doesn’t merely present
options. Drawing on over a half-
century of experience in software
environments of every imaginable
type, Martin tells you what choices

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to make and why they are critical to your success. As you've come to expect from Uncle Bob, this book is packed with direct, no-nonsense solutions for the real challenges you'll face—the ones that will make or break your projects. Learn what software architects need to achieve—and core disciplines and practices for achieving it Master essential software design principles for addressing function, component separation, and data management See how programming paradigms impose discipline by restricting what developers can do Understand what's critically important and what's merely a "detail" Implement optimal, high-level structures for

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web, database, thick-client, console, and embedded applications Define appropriate boundaries and layers, and organize components and services See why designs and architectures go wrong, and how to prevent (or fix) these failures Clean Architecture is essential reading for every current or aspiring software architect, systems analyst, system designer, and software manager—and for every programmer who must execute someone else’s designs. Register your product for convenient access to downloads, updates, and/or corrections as they become available.

Your all-in-one guide to exploring and implementing Microsoft

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Dynamics AX About This Book

From project kick-off to go live and upgrade, learn what to expect in each phase of the project This book guides you through the entire journey of a Dynamics AX implementation project, helping you to avoid the common pitfalls and adapt industry knowledge and best practices for your own project This one-stop guide is packed with key tools and techniques to aid your Dynamics AX implementation Who This Book Is For This book is for IT project managers, solution architects, and consultants who are planning to implement or are in the process of implementing or upgrading Dynamics AX. To use

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this book, you must have a working Dynamics AX system in place and must be familiar with the basics of Dynamics AX. What You Will Learn Prepare for a great start with effective project management and planning from the beginning Gather details early using effective requirement-gathering tools and techniques Gain tools and techniques for effective infrastructure planning and hardware sizing Get to grips with integration and data migration through planning and strategy Familiarize yourself with the reporting and BI tools Master functional and technical design to customize existing features and

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designs in your own projects

Manage your configuration and you're your configuration from one environment to another Learn industry's best practices and recommendations on customization development and performance tuning In Detail Microsoft

Dynamics AX is Enterprise Resource Planning (ERP) software that supports multi-site operations across various countries, providing international processing within the company. It is an ERP solution with a lot of features and functionality, and it provides support across the fields of financial, distribution, supply chain, project, customer relationship, HR, and field service

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management. This book is all about simplifying the overall implementation process of Dynamics AX. The purpose of this book is to help IT managers and solution architects implement Dynamics AX to increase the success rate of Dynamics AX projects. This all-in-one guide will take you through an entire journey of a Dynamics AX implementation, ensuring you avoid commonly-made mistakes during implementation. You'll begin with the installation of Dynamics AX and the basic requirements. Then, you'll move onto data migration, reporting, functional and technical design, configuration, and performance

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tuning. By the end of the book, you will know how to plan and execute Dynamics AX right, on your first attempt, using insider industry knowledge and best practices. Style and approach This is a progressive, easy-to-follow book that summarizes numerous aspects you need to know to make your Dynamics AX implementations successful using code examples to get you hands-on.

Over the past 20 years, software architectures have significantly contributed to the development of complex and distributed systems. Nowadays, it is recognized that one of the critical problems in the design and development of any complex

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software system is its architecture, i.e. the organization of its architectural elements. Software Architecture presents the software architecture paradigms based on objects, components, services and models, as well as the various architectural techniques and methods, the analysis of architectural qualities, models of representation of architectural templates and styles, their formalization, validation and testing and finally the engineering approach in which these consistent and autonomous elements can be tackled.

A practical tutorial containing clear, step-by-step explanations of all the

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concepts required to understand the technology involved in virtualizing your application infrastructure. Each chapter uses real-world scenarios so that the readers can put into practice what they learn immediately and with the right guidance. Each topic is written defining a common need and developing the process to solve it using Microsoft App-V. This book is for system administrators or consultants who want to master and dominate App-V, and gain a deeper understanding of the technology in order to optimize App V implementations. Even though the book does not include basic steps like installing App-V components or sequencing simple applications;

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application virtualization beginners will receive a comprehensive look into App-V before jumping into the technical process of each chapter.

The Future of Humanity

Breakthroughs in Research and Practice

Web Information Systems and Technologies

SharePoint 2013 Field Guide

13th International Conference,

WEBIST 2017, Porto, Portugal,

April 25-27, 2017, Revised Selected Papers

MCSA Windows Server 2016 Study Guide: Exam 70-740

Do you need to learn about cloud computing architecture with Microsoft's Azure quickly? Read

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this book! It gives you just enough info on the big picture and is filled with key terminology so that you can join the discussion on cloud architecture. Covers SharePoint 2013, Office 365's SharePoint Online, and Other Office 365 Components In SharePoint 2013 Field Guide, top consultant Errin O'Connor and the team from EPC Group bring together best practices and proven strategies drawn from hundreds of successful SharePoint and Office 365 engagements. Reflecting this unsurpassed experience, they guide you through deployments of every type, including the latest

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considerations around private, public, and hybrid cloud implementations, from ECM to business intelligence (BI), as well as custom development and identity management. O'Connor reveals how world-class consultants approach, plan, implement, and deploy SharePoint 2013 and Office 365's SharePoint Online to maximize both short- and long-term value. He covers every phase and element of the process, including initial "whiteboarding"; consideration around the existing infrastructure; IT roadmaps and the information architecture (IA);

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and planning for security and compliance in the new IT landscape of the hybrid cloud. SharePoint 2013 Field Guide will be invaluable for implementation team members ranging from solution architects to support professionals, CIOs to end-users. It's like having a team of senior-level SharePoint and Office 365 hybrid architecture consultants by your side, helping you optimize your success from start to finish! Detailed Information on How to... Develop a 24-36 month roadmap reflecting initial requirements, longterm strategies, and key unknowns for organizations from

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100 users to 100,000 users
Establish governance that reduces risk and increases value, covering the system as well as information architecture components, security, compliance, OneDrive, SharePoint 2013, Office 365, SharePoint Online, Microsoft Azure, Amazon Web Services, and identity management
Address unique considerations of large, global, and/or multilingual enterprises
Plan for the hybrid cloud (private, public, hybrid, SaaS, PaaS, IaaS)
Integrate SharePoint with external data sources: from Oracle and SQL Server to HR,

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ERP, or document management for business intelligence initiatives Optimize performance across multiple data centers or locations including US and EU compliance and regulatory considerations (PHI, PII, HIPAA, Safe Harbor, etc.) Plan for disaster recovery, business continuity, data replication, and archiving Enforce security via identity management and authentication Safely support mobile devices and apps, including BYOD Implement true records management (ECM/RM) to support legal/compliance requirements Efficiently build custom applications, workflows,

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apps and web parts Leverage
Microsoft Azure or Amazon Web
Services (AWS)

Part of a series of specialized
guides on System Center - this
book provides focused drilldown
on managing servers. Led by
series editor Mitch Tulloch, a
team of System Center experts
step you through key technical
scenarios and management
tasks.

Eliminate unnecessary code by
taking advantage of the MVVM
pattern in Silverlight and WPF
using this book and eBook ? less
code, fewer bugs

Fundamental Challenges to
Global Peace and Security

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Database and Expert Systems
Applications

Clean Architecture

System Center 2012

Orchestrator Unleashed

MVVM Survival Guide for

Enterprise Architectures in
Silverlight and WPF

Handbook of Research on
Technology Integration in the
Global World

Using System Center 2012

Orchestrator, you can capture and document processes across your entire IT organization, establishing the automation you need to deliver advanced cloud services and self-adjusting computing resources.

Authored by five leading System Center experts, this comprehensive

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reference and technical guide brings together all the knowledge you'll need to architect, install, implement, integrate, and maximize the value of your own Orchestrator solutions. The authors introduce current best practices based on large-scale enterprise implementations they've personally led or participated in. This up-to-date guide shows how to apply Orchestrator's major improvements to implement IT process automation in any environment, including private clouds. You'll start with context: what Orchestrator does, how it has evolved, how it works, and essential architecture and design techniques. Next, the authors help you make crucial up-front decisions about activities, runbooks, security, and

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administration. Finally, you'll find expert guidance for integrating Orchestrator with the rest of System Center and with Windows Azure cloud services—including advanced automated workflows that encompass both data center and cloud. Detailed information on how to...

- Understand System Center 2012 Orchestrator's capabilities, evolution, architecture, and design, including SP1 improvements and R2
- Successfully install System Center 2012 Orchestrator and migrate smoothly from Opalis Integration Server 6.3
- Take full advantage of Orchestrator's advanced new runbook automation capabilities
- Configure activities associated with runbook control, systems, scheduling, monitoring, files, email, notification, and data

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handling • Design runbooks for fault tolerance and optimal performance • Enforce strong security using roles, permissions, and auditing • Deliver integration capabilities for Operations Manager, Service Manager, Configuration Manager, Virtual Machine Manager, and Data Protection Manager • Automate end-to-end data center/ cloud workflows with integration packs and PowerShell • Create your own integration packs with Orchestrator Integration Toolkit (OIT.SDK) • Support Orchestrator 2012, troubleshoot problems, and discover the best web and third-party resources

Pro Application Lifecycle Management with Visual Studio 2012 Apress

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While Excel remains ubiquitous in the business world, recent Microsoft feedback forums are full of requests to include Python as an Excel scripting language. In fact, it's the top feature requested. What makes this combination so compelling? In this hands-on guide, Felix Zumstein--creator of xlwings, a popular open source package for automating Excel with Python--shows experienced Excel users how to integrate these two worlds efficiently. Excel has added quite a few new capabilities over the past couple of years, but its automation language, VBA, stopped evolving a long time ago. Many Excel power users have already adopted Python for daily automation tasks. This guide gets you started. Use Python without

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extensive programming knowledge
Get started with modern tools,
including Jupyter notebooks and
Visual Studio code Use pandas to
acquire, clean, and analyze data
and replace typical Excel
calculations Automate tedious
tasks like consolidation of Excel
workbooks and production of Excel
reports Use xlwings to build
interactive Excel tools that use
Python as a calculation engine
Connect Excel to databases and
CSV files and fetch data from the
internet using Python code Use
Python as a single tool to replace
VBA, Power Query, and Power Pivot
The increase in connected devices
in the internet of things (IoT) is
leading to an exponential increase
in the data that an organization is
required to manage. To

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successfully utilize IoT in businesses, big data analytics are necessary in order to efficiently sort through the increased data. The combination of big data and IoT can thus enable new monitoring services and powerful processing of sensory data streams. The Handbook of Research on Big Data and the IoT is a pivotal reference source that provides vital research on emerging trends and recent innovative applications of big data and IoT, challenges facing organizations and the implications of these technologies on society, and best practices for their implementation. While highlighting topics such as bootstrapping, data fusion, and graph mining, this publication is ideally designed for IT specialists, managers,

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policymakers, analysts, software engineers, academicians, and researchers.

Big Data Analytics

The Digital Twin Paradigm for Smarter Systems and Environments: The Industry Use Cases

MCSA Windows 10 Study Guide

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Build Windows 8 Apps with Microsoft Visual C# and Visual Basic Step by Step

Build Windows 8 Apps with Microsoft Visual C? and Visual Basic Step by Step

Technology's presence in society continues to increase as new products and programs emerge. As such, it is vital for various industries to rapidly

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adapt and learn to incorporate the latest technology applications and tools. The Handbook of Research on Technology Integration in the Global World is an essential reference source that examines a variety of approaches to integrating technology through technology diffusion, e-collaboration, and e-adoption. The book explores topics such as information systems agility, semantic web, and the digital divide. This publication is a valuable resource for academicians, practitioners, researchers, and upper-level graduate students.

Maximize the impact and precision of your message! Now in its fourth edition, the Microsoft Manual of Style provides essential guidance to content creators, journalists, technical writers,

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editors, and everyone else who writes about computer technology. Direct from the Editorial Style Board at Microsoft—you get a comprehensive glossary of both general technology terms and those specific to Microsoft; clear, concise usage and style guidelines with helpful examples and alternatives; guidance on grammar, tone, and voice; and best practices for writing content for the web, optimizing for accessibility, and communicating to a worldwide audience. Fully updated and optimized for ease of use, the Microsoft Manual of Style is designed to help you communicate clearly, consistently, and accurately about technical topics—across a range of audiences and media.

This book presents advanced software

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development tools for construction, deployment and governance of Service Oriented Architecture (SOA) applications. Novel technical concepts and paradigms, formulated during the research stage and during development of such tools are presented and illustrated by practical usage examples. Hence this book will be of interest not only to theoreticians but also to engineers who cope with real-life problems. Additionally, each chapter contains an overview of related work, enabling comparison of the proposed concepts with exiting solutions in various areas of the SOA development process. This makes the book interesting also for students and scientists who investigate similar issues.

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This handbook is a concise yet complete guide to fundamental engineering requirements and quality characteristics that users, developers, and marketers of mobile applications should be aware of. It provides detailed definitions and descriptions of eight key software application features that are integral to the overall design and user experience goals, and which may often overlap with certain functionalities. The book explains the essential aspects of these features clearly to novice developers. Readers will also learn about how to optimize the listed features to tailor their applications to the needs of their users. Key Features: - Presents detailed information about eight different features which guide mobile

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application development: capability, reliability, usability, charisma, security, performance, mobility and compatibility - Reader-friendly, structured layout of each chapter including relevant illustrations and clear language, designed for quick learning - Focus on both software function and user perception of applications on mobile devices - Includes a handy appendix with information about mobile learning projects and related work packages

Handbook of Mobile Application Development A Guide to Selecting the Right Engineering and Quality Features is the ideal learning tool for novice software developers, computer science students, IT enthusiasts and marketers who want to design or

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develop mobile apps for an optimal user experience.

Advice from the Consulting Trenches

Mastering Windows Server 2012 R2

Design and Construction of an RFID-enabled Infrastructure

Pro Application Lifecycle Management with Visual Studio 2012

Exam 70-740, Exam 70-741, Exam 70-742, and Exam 70-743

Framework for the Integration of Mobile Device Features in PLM

You can have the best coders in the world working in your teams, but if your project management isn't up to scratch, your project is almost certain to be delayed, to come in over budget, and in some cases to fail entirely. By taking precise control of your application development process, you can make changes, both large and

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small, throughout your project's life cycle that will lead to better-quality finished products that are consistently delivered on time and within budget. Application lifecycle management (ALM) is an area of rapidly growing interest within the development community. Because its techniques allow you to deal with the process of developing applications across many areas of responsibility and across many different disciplines, its effects on your project can be wide ranging and pronounced. It is a project management tool that has practical implications for the whole team—from architects to designers, from developers to testers. Pro Application Lifecycle Management with Visual Studio 2012 focuses on the most powerful ALM tool available for the Microsoft .NET Framework: Visual

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Studio Team Foundation Server. It demonstrates the key concepts and techniques of ALM at first with a guide to the overall methodology, and then delves into architecture and testing--illustrating all of the concepts, tips and tricks using the tools TFS provides. The book serves as a complete guide to the ALM style--with no fluff and many relevant code samples and examples. After reading the book, you will understand how TFS can be used to generate continuous meaningful reporting on your project's health for the decision makers on your team as well as for your project's sponsors.

This book challenges the current thinking and strategies in the field of global peace and security. It is clear that current global public and private institutions are inadequate for the

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challenges we face today. These challenges cut across borders and require a more coordinated and concerted effort to find workable solutions. This book therefore begins with the question of global leadership and works its way back to the interconnected dynamics of global modernity and conflict. It is divided into four parts, each addressing a fundamental challenge to global peace and security. By exploring how we break out of the current framework, in which we understand global activities and the distribution of resources, and this book provides new ways of understanding the material, cultural, political, and spiritual relations that form the basis of international society. Hoda Mahmoudi is Research Professor and Chair, The Bahai Chair for World Peace, University of

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Maryland, USA. Michael Allen is Chair and Professor of Political Science on the Harvey Wexler Chair in Political Science, and Co-Director of International Studies, Bryn Mawr College, USA. Kate Seaman is Assistant Director, The Bahai Chair for World Peace, University of Maryland, USA. .

This volume constitutes the refereed proceedings of the Second International Conference on Applied Technologies, ICAT 2020, held in Quito, Ecuador, in December 2020. Due to the COVID-19 pandemic the conference was held online. The 53 papers were carefully reviewed and selected from 145 submissions. The papers are organized according to the following topics: communication; computing; e-government and e-participation; e-learning; electronics;

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intelligent systems; machine vision;
security; technology trends.

Readers examine two of the most prominent operating systems -- Windows 10 and Linux CentOS7 -- in parallel with the unique approach found only in **GUIDE TO PARALLEL OPERATING SYSTEMS WITH WINDOWS 10 AND LINUX, 3E.**

Rather than using a compare and contrast model, the book presents each topic conceptually before demonstrating it simultaneously on both operating systems. Readers can instantly switch between Windows 10 and Linux CentOS 7 to complete the myriad of hands-on activities that reinforce the similarities between the two operating systems for each conceptual task. The text's virtualization approach provides flexibility that enables readers to use

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Microsoft Hyper-V Client, Oracle VirtualBox, or VMWare Workstation. This comprehensive guide helps users develop the competencies needed in Windows 10 and Linux to maximize success in today's classroom or tomorrow's business environment. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Software Architecture 2

Third Knowledge Technology Week, KTW 2011, Kajang, Malaysia, July 18-22, 2011. Revised Selected Papers Integrated Cloud Platform MCSA Guide to Microsoft SQL Server 2012 (Exam 70-462)

Principles and Best Practice
Microsoft System Center

Educational technologies

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2012

are becoming commonplace entities in classrooms as they provide more options and support for teachers and students. However, many teachers are finding these technologies difficult to use due to a lack of training and instruction on how to effectively apply them to the classroom. TPACK: Breakthroughs in Research and Practice is an authoritative reference source for the latest research on the integration of

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*technological knowledge,
pedagogical knowledge,
and content knowledge in
the contexts of K-12
education. Highlighting
a range of pertinent
topics such as
pedagogical strategies,
blended learning, and
technology integration,
this publication is an
ideal resource for
educators, instructional
designers,
administrators,
academicians, and
teacher education
programs seeking current
findings on the*

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implementation of technology in instructional design. The bestselling MCSA 70-470 study guide, updated for the latest exam MCSA Windows Server 2016 Study Guide is your ultimate resource for Exam 70-740. Covering 100% of all exam objectives, this study guide goes far beyond concept review with real-world scenarios containing expert insights, chapter review questions, hands-on practice exercises while

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the Sybex interactive learning environment provides additional last minute review through practice exams, electronic flashcards, and searchable glossary. This new edition has been fully updated to align with the Windows Server 2016 exam, featuring authoritative coverage of installation, configuration, server roles, Hyper-V, core network services, Active Directory, Group Policy, security, remote access,

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disaster recovery, and more. The vast majority of servers around the world use Windows Server, and the 2016 release includes a host of new features and updates. This study guide has been updated to prepare you for these changes so you can be confident on exam day and beyond. Study 100% of Exam 70-740 objectives Gain hands-on practice performing critical tasks Link concept to practice through real-world

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*scenarios Access to the
Sybex interactive
learning environment
Whether you want to sit
for the exam, or simply
improve your job
performance, this Sybex
study guide will give
you the expert insight
to learn the key
concepts and latest
updates to Windows
Server 2016.*

*This volume constitutes
the refereed proceedings
of the three workshops
held at the 29th
International Conference
on Database and Expert*

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Systems Applications, DEXA 2018, held in Regensburg, Germany, in September 2018: the Third International Workshop on Big Data Management in Cloud Systems, BDMICS 2018, the 9th International Workshop on Biological Knowledge Discovery from Data, BIODKDD, and the 15th International Workshop on Technologies for Information Retrieval, TIR. The 25 revised full papers were carefully reviewed and selected from 33

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submissions. The papers discuss a range of topics including: parallel data management systems, consistency and privacy cloud computing and graph queries, web and domain corpora, NLP applications, social media and personalization

This book constitutes the refereed proceedings of the Third Knowledge Technology Week, KTW 2011, held in Kajang, Malaysia, in July 2011. The 29 revised full papers presented

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together with 9 short papers were carefully reviewed and selected from 105 submissions. KTW 2011 consisted of a number of co-located events. This volume contains selected papers from the proceedings of the Third Malaysian Joint Conference on Artificial Intelligence (MJCAI 2011), the Third Semantic Technology and Knowledge Engineering (STAKE 2011), and the International Workshop on Semantic Agents (IWSA 2012).

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*Microsoft Dynamics AX
Implementation Guide*

Python for Excel

Cloud Architecture

Patterns

Guide to Parallel

Operating Systems with

Windows 10 and Linux

6th International

Conference, BDA 2018,

Warangal, India,

December 18-21, 2018,

Proceedings

MCSA Windows Server 2016

Complete Study Guide

The Digital Twin Paradigm

for Smarter Systems and

Environments: The Industry

Use Cases, Volume 117, the

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latest volume in the *Advances in Computers* series, presents detailed coverage of new advancements in computer hardware, software, theory, design and applications. Chapters vividly illustrate how the emerging discipline of digital twin is strategically contributing to various digital transformation initiatives. Specific chapters cover *Demystifying the Digital Twin Paradigm*, *Digital Twin Technology for "Smarter Manufacturing"*, *The Fog Computing/ Edge Computing to leverage Digital Twin*, *The industry use cases for the Digital Twin idea*, *Enabling*

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Digital Twin at the Edge, The Industrial Internet of Things (IIOT), and much more. Provides in-depth descriptions of digital transformation technologies and tools Covers various research accomplishments in this flourishing field of relevance Includes many detailed industry use cases with all the right information

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

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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

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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

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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.

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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.

This book constitutes revised selected papers from the 13th International Conference on Web Information Systems and Technologies, WEBIST 2017, held in Porto, Portugal, in April 2017. The purpose of the WEBIST series of conferences is to bring together researches,

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engineers and practitioners interested in technological advances and business applications of web-based information systems. The 12 full papers presented in this volume were carefully reviewed and selected from originally 77 paper submissions. They contribute to the understanding of relevant trends of current research on Web information systems and technologies, comprising unified interfaces, Progressive Web Apps (PWAs) as well as a mobile device taxonomy, XML and open data processing, the history of Web engineering, web development for end-users, access

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control, Web platform assessment, rule engines, and scientific blogging. Check out the new Hyper-V, find new and easier ways to remotely connect back into the office, or learn all about Storage Spaces—these are just a few of the features in Windows Server 2012 R2 that are explained in this updated edition from Windows authority Mark Minasi and a team of Windows Server experts led by Kevin Greene. This book gets you up to speed on all of the new features and functions of Windows Server, and includes real-world scenarios to put them in perspective. If you're a

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*system administrator
upgrading to, migrating to,
or managing Windows Server
2012 R2, find what you need
to do the job in this
complete resource. Learn all
about: Installing or
upgrading to and managing
Windows Server 2012 R2
Understanding Microsoft NIC
teams 2012 and PowerShell
Setting up via GUI or
updated Server Core 2012
Migrating, merging, and
modifying your Active
Directory Managing address
spaces with IPAM
Understanding new shared
storage, storage spaces, and
better tools Controlling
access to file shares—a new
and improved approach Using*

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*and administering Remote
Desktop, Virtual Desktop,
and Hyper-V®*

*Advanced SOA Tools and
Applications*

*Exam 70-698 and Exam 70-697
System Performance and
Management Analytics*

*MCSA Windows Server 2016
Study Guide: Exam 70-741*

*Effective Coding with VHDL
Exam 70-698*

Your hands-on, step-by-step guide to building Windows 8 apps with .NET Teach yourself how to build Windows 8 applications using Microsoft .NET Framework 4.5 with Microsoft Visual C# 2012 or Visual Basic 2012—one step at a time. Ideal for those with

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intermediate to advanced .NET development skills, this tutorial provides practical, learn-by-doing exercises for creating apps that easily adapt to different screen sizes—including desktop and laptop computers, tablets, and slates. C# examples are presented in the text; Visual Basic code examples are available online only. Discover how to:

- Build apps using Windows 8 design guidelines
- Explore the Windows 8 application architecture
- Apply tools and libraries from Visual Studio and the Windows 8 SDK
- Use XAML to create touch-optimized user interfaces
- Create apps that make use of device sensors
- Manage the Windows 8 application

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opens with information on the latest version of Microsoft SQL Server, offering step-by-step guidance on selecting an edition and completing initial installation and configuration. Several chapters then explore key topics such as database programming, security, performance tuning, backup and recovery, data integration, and system monitoring. Within each chapter, numerous resources and features reinforce teaching and learning, including learning objectives, summaries of key ideas, hands-on activities, discussion questions, definitions of important terms, and case studies to provide real-world context.

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referenced within the product description or the product text may not be available in the ebook version.

A guide to applying software design principles and coding practices to VHDL to improve the readability, maintainability, and quality of VHDL code. This book addresses an often-neglected aspect of the creation of VHDL designs. A VHDL description is also source code, and VHDL designers can use the best practices of software development to write high-quality code and to organize it in a design. This book presents this unique set of skills, teaching VHDL designers of all experience levels how to apply

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the best design principles and coding practices from the software world to the world of hardware. The concepts introduced here will help readers write code that is easier to understand and more likely to be correct, with improved readability, maintainability, and overall quality. After a brief review of VHDL, the book presents fundamental design principles for writing code, discussing such topics as design, quality, architecture, modularity, abstraction, and hierarchy. Building on these concepts, the book then introduces and provides recommendations for each basic element of VHDL code, including statements, design units, types, data

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objects, and subprograms. The book covers naming data objects and functions, commenting the source code, and visually presenting the code on the screen. All recommendations are supported by detailed rationales. Finally, the book explores two uses of VHDL: synthesis and testbenches. It examines the key characteristics of code intended for synthesis (distinguishing it from code meant for simulation) and then demonstrates the design and implementation of testbenches with a series of examples that verify different kinds of models, including combinational, sequential, and FSM code. Examples from the book are

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also available on a companion website, enabling the reader to experiment with the complete source code.

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Knowledge Technology
Second International Conference,
ICAT 2020, Quito, Ecuador,
December 2 – 4, 2020, Proceedings
MCSA: Windows 10 Complete
Study Guide

Handbook of Mobile Application
Development: A Guide to Selecting
the Right Engineering and Quality
Features

Applied Technologies

This book shares key insights into system performance and management analytics, demonstrating how the field of analytics is currently changing and how it is used to monitor companies' efforts to drive

performance. Managing business performance facilitates the effective accomplishment of strategic and operational goals, and there is a clear and direct correlation between using performance management applications and improved business and organizational results. As such, performance and management analytics can yield a range of direct and indirect benefits, boost operational efficiency and unlock employees' latent potential, while at the same time aligning services with overarching goals. The book addresses a range of topics,

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including software reliability assessment, testing, quality management, system-performance management, analysis using soft-computing techniques, and management analytics. It presents a balanced, holistic approach to viewing the world from both a technical and managerial perspective by considering performance and management analytics. Accordingly, it offers a comprehensive guide to one of the most pressing issues in today's technology-dominated world, namely, that most companies and organizations find themselves awash in a sea of data, but lack the human

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capital, appropriate tools and knowledge to use it to help them create a competitive edge.

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abilities in configuring Windows devices. This book is your ideal companion to study for both exams. Study 100 percent of the objectives for Exams 70-698 and 70-697 Apply your knowledge with hands-on exercises Test your skills with challenging review questions Access videos, electronic flashcards, a searchable glossary, and bonus practice exams The demand for qualified Windows 10 professionals will be high, as more than half of the corporate user base that skipped Windows 8/8.1 is expected to adopt Windows 10. If you want the skills that are

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