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Enterprise Integration The Internet of Things Pro .NET 2.0
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The Flexible Enterprise Jan 05 2022 The need for enterprise flexibility in an era of rapidly advancing technology, increasing competition, and globalization, is apparent. Flexibility can be thought of as an ability of the enterprise to quickly and efficiently respond to market changes and to bring new products and services quickly to the market place. Beyond this definition, a truly flexible enterprise should proactively change the market through its ability to create new and innovative products and services. The proposed book is intended to provide a conceptual framework of 'Flexible Enterprise' supported by researches/case applications in various types of flexibilities exhibited by a flexible enterprise. The selected papers from a variety of issues concerning the planning and operation of a flexible enterprise are organized into following four parts: I

Enterprise and Strategic Flexibility II Organizational
Flexibility III Business Process and Information Systems
Flexibility IV Operations Flexibility

System Engineering Analysis, Design, and Development

Apr 27 2021 Praise for the first edition: "This excellent text will be useful to every system engineer (SE) regardless of the domain. It covers ALL relevant SE material and does so in a very clear, methodical fashion. The breadth and depth of the author's presentation of SE principles and practices is outstanding." —Philip Allen This textbook presents a comprehensive, step-by-step guide to System Engineering analysis, design, and development via an integrated set of concepts, principles, practices, and methodologies. The methods presented in this text apply to any type of human system -- small, medium, and large organizational systems and system development projects delivering engineered systems or services across multiple business sectors such as medical, transportation, financial, educational, governmental, aerospace and defense, utilities, political, and charity, among others. Provides a common focal point for "bridging the gap" between and unifying System Users, System Acquirers, multi-discipline System Engineering, and Project, Functional, and Executive Management education, knowledge, and decision-making for developing systems, products, or services Each chapter provides definitions of key terms, guiding principles, examples, author's notes, real-world examples, and exercises, which highlight and reinforce key SE&D concepts and practices Addresses concepts employed in Model-Based Systems Engineering (MBSE), Model-Driven Design (MDD), Unified Modeling Language

(UMLTM) / Systems Modeling Language (SysMLTM), and Agile/Spiral/V-Model Development such as user needs, stories, and use cases analysis; specification development; system architecture development; User-Centric System Design (UCSD); interface definition & control; system integration & test; and Verification & Validation (V&V) Highlights/introduces a new 21st Century Systems Engineering & Development (SE&D) paradigm that is easy to understand and implement. Provides practices that are critical staging points for technical decision making such as Technical Strategy Development; Life Cycle requirements; Phases, Modes, & States; SE Process; Requirements Derivation; System Architecture Development, User-Centric System Design (UCSD); Engineering Standards, Coordinate Systems, and Conventions; et al. Thoroughly illustrated, with end-of-chapter exercises and numerous case studies and examples, Systems Engineering Analysis, Design, and Development, Second Edition is a primary textbook for multi-discipline, engineering, system analysis, and project management undergraduate/graduate level students and a valuable reference for professionals.

Information Systems Development Feb 18 2023 This volume constitutes the published proceedings of the 17th International Conference on Information Systems Development. They present the latest and greatest concepts, approaches, and techniques of systems development - a notoriously transitional field.

Low-Power Design Techniques and CAD Tools for Analog and RF Integrated Circuits Dec 24 2020 This unique book provides an overview of the current state of the

art and very recent research results that have been achieved as part of the Low-Power Initiative of the European Union, in the field of analogue, RF and mixed-signal design methodologies and CAD tools.

ASP.NET Core 1.0 High Performance Mar 19 2023 Create fast, scalable, and high performance applications with C#, ASP.NET Core 1.0, and MVC 6 About This Book Learn the importance of measuring, profiling, and locating the most impactful problems Discover the common areas you might encounter performance problems and areas you don't need to worry about Understand the differences between development workstations and production infrastructure and how these can amplify problems Design workflows that run asynchronously and are resilient to transient performance issues Who This Book Is For This book is for ASP.NET and C# developers who have experience with the MVC framework for web application development and are looking to deploy applications that will perform well in live production environments. These could be virtual machines or hosted by a cloud service provider such as AWS or Azure. What You Will Learn Why performance matters and when it should be considered Use different tools to measure performance Spot common performance issues, their root causes, and how to easily mitigate them Improve performance at the network level and I/O level, and how to optimize the application as a whole Work with caching and message queuing tools, including patterns and strategies Discover the dark side of performance improvement and find out how to manage complexity Monitor performance as part of continuous integration and regression testing Assess and

solve performance issues with other advanced technologies

In Detail ASP.NET Core is the new, open source, and cross-platform, web-application framework from Microsoft. It's a stripped down version of ASP.NET that's lightweight and fast. This book will show you how to make your web apps deliver high performance when using it. We'll address many performance improvement techniques from both a general web standpoint and from a C#, ASP.NET Core, and .NET Core perspective. This includes delving into the latest frameworks and demonstrating software design patterns that improve performance. We will highlight common performance pitfalls, which can often occur unnoticed on developer workstations, along with strategies to detect and resolve these issues early. By understanding and addressing challenges upfront, you can avoid nasty surprises when it comes to deployment time. We will introduce performance improvements along with the trade-offs that they entail. We will strike a balance between premature optimization and inefficient code by taking a scientific- and evidence-based approach. We'll remain pragmatic by focusing on the big problems. By reading this book, you'll learn what problems can occur when web applications are deployed at scale and know how to avoid or mitigate these issues. You'll gain experience of how to write high-performance applications without having to learn about issues the hard way. You'll see what's new in ASP.NET Core, why it's been rebuilt from the ground up, and what this means for performance. You will understand how you can now develop on and deploy to Windows, Mac OS X, and Linux using cross-platform tools, such as Visual Studio Code. Style and approach Starting with

a drill down into the nuts and bolts of various performance parameters, you will get an understanding of the ASP.NET MVC 6 framework with the help of rich code-based examples that will equip you to build highly scalable and optimized applications.

Pro .NET 2.0 Code and Design Standards in C# Jun 17 2020 * Three sets of standards bundled in one book: Code standards, Design standards and patterns. Great value for the money! * Pro .NET Code & Design Standards in C# is based on industry best practices; it is intuitive and will be updated for every major edition of .NET. * It showcases the C# language. However, it is created in a universal style to make it suitable for all .NET development projects whatever flavor of language.

Service-Driven Approaches to Architecture and Enterprise Integration Aug 20 2020 While business functions such as manufacturing, operations, and marketing often utilize various software applications, they tend to operate without the ability to interact with each other and exchange data. This provides a challenge to gain an enterprise-wide view of a business and to assist real-time decision making. Service-Driven Approaches to Architecture and Enterprise Integration addresses the issues of integrating assorted software applications and systems by using a service driven approach. Supporting the dynamics of business needs, this book highlights the tools, techniques, and governance aspects of design, and implements cost-effective enterprise integration solutions. It is a valuable source of information for software architects, SOA practitioners, and software engineers as well as researchers and students in pursuit of

extensible and agile software design.

Microservices with Azure Jun 10 2022 Architect enterprise-grade, Microservice-based solutions using Microsoft Azure Service Fabric. About This Book Explore architectural patterns for building modern day Microservice-based systems Learn about Microsoft Service Fabric as a platform to host distributed Microservices Discover multiple options for hosting Microservices on heterogeneous, cross-platform environments Learn to configure Azure Service Fabric clusters for enterprise-grade service deployments Who This Book Is For The book is aimed at IT architects, system administrators, and DevOps engineers who have a basic knowledge of the Microsoft Azure platform and are working on, or are curious about, the concepts of Microservices and Microservice architecture. What You Will Learn Understand the basics of Microservices and how Microsoft Azure fits into the equation Master Azure Service Fabric architecture and services Explore Azure Service Fabric application programming models Comprehensive study of various architecture patterns for building enterprise-grade Microservices Manage and deploy Microservices on Azure Service Fabric An insight into the future of Microservices with containers and serverless computing In Detail Microsoft Azure is rapidly evolving and is widely used as a platform on which you can build Microservices that can be deployed on-premise and on-cloud heterogeneous environments through Microsoft Azure Service Fabric. This book will help you understand the concepts of Microservice application architecture and build highly maintainable and scalable enterprise-grade applications using the various services in

Microsoft Azure Service Fabric. We will begin by understanding the intricacies of the Microservices architecture and its advantages over the monolithic architecture and Service Oriented Architecture (SOA) principles. We will present various scenarios where Microservices should be used and walk you through the architectures of Microservice-based applications. Next, you will take an in-depth look at Microsoft Azure Service Fabric, which is the best-in-class platform for building Microservices. You will explore how to develop and deploy sample applications on Microsoft Azure Service Fabric to gain a thorough understanding of it. Building Microservice-based application is complicated. Therefore, we will take you through several design patterns that solve the various challenges associated with realizing the Microservices architecture in enterprise applications. Each pattern will be clearly illustrated with examples that you can keep referring to when designing applications. Finally, you will be introduced to advanced topics such as Serverless computing and DevOps using Service Fabric, to help you undertake your next venture with confidence. Style and approach This book introduces its readers to the concept of Microservices and Microsoft Azure Service Fabric as a distributed platform to host enterprise-grade Microservices. It then addresses common architectural challenges associated with the Microservice architecture, using proven architectural patterns.

Modern Techniques for Successful IT Project

Management Dec 16 2022 Computer technology provides the opportunity for innovation and progress in the daily

operations and initiatives of corporations. Despite the positive elements of integrating technology into the workplace, corporations continue to struggle with the challenges created by rapid technological advancements.

Modern Techniques for Successful IT Project Management brings together academic research and professional practice to examine the complexity of implementing technology into the structure and organization of a corporation's ventures.

This publication is an essential reference source for researchers, professionals, and upper-level university students working in the fields of project management, information systems, and IT project management interested in the methodologies and research necessary to improve the impact of Information Technology.

Distributed and Cloud Computing Oct 14 2022 *Distributed and Cloud Computing: From Parallel Processing to the Internet of Things* offers complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing. It is the first modern, up-to-date distributed systems textbook; it explains how to create high-performance, scalable, reliable systems, exposing the design principles, architecture, and innovative applications of parallel, distributed, and cloud computing systems. Topics covered by this book include: facilitating management, debugging, migration, and disaster recovery through virtualization; clustered systems for research or ecommerce applications; designing systems as web services; and social networking systems using peer-to-peer computing. The principles of cloud computing are discussed using

examples from open-source and commercial applications, along with case studies from the leading distributed computing vendors such as Amazon, Microsoft, and Google. Each chapter includes exercises and further reading, with lecture slides and more available online. This book will be ideal for students taking a distributed systems or distributed computing class, as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud, P2P and grid computing. Complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing Includes case studies from the leading distributed computing vendors: Amazon, Microsoft, Google, and more Explains how to use virtualization to facilitate management, debugging, migration, and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course—each chapter includes exercises and further reading, with lecture slides and more available online

Effects of IT on Enterprise Architecture, Governance, and Growth Jun 29 2021 As technology continues to evolve in organizations, it is vital to understand the impact that these advances will have on different aspects of the business environment as well as the opportunity for further improvement. **Effects of IT on Enterprise Architecture, Governance, and Growth** explores the influence of emerging technology on different viewpoints associated with contemporary enterprise. Emphasizing an interdisciplinary approach to the comprehension of organizational structure

and dynamics, this book is an inclusive reference source for enterprise analysts, business managers, and IT managers, as well as upper-level students interested in a new framework for understanding business enterprise in the new digital era.

Architectural Patterns Aug 24 2023 Learn the importance of architectural and design patterns in producing and sustaining next-generation IT and business-critical applications with this guide. About This Book Use patterns to tackle communication, integration, application structure, and more Implement modern design patterns such as microservices to build resilient and highly available applications Choose between the MVP, MVC, and MVVM patterns depending on the application being built Who This Book Is For This book will empower and enrich IT architects (such as enterprise architects, software product architects, and solution and system architects), technical consultants, evangelists, and experts. What You Will Learn Understand how several architectural and design patterns work to systematically develop multitier web, mobile, embedded, and cloud applications Learn object-oriented and component-based software engineering principles and patterns Explore the frameworks corresponding to various architectural patterns Implement domain-driven, test-driven, and behavior-driven methodologies Deploy key platforms and tools effectively to enable EA design and solutioning Implement various patterns designed for the cloud paradigm In Detail Enterprise Architecture (EA) is typically an aggregate of the business, application, data, and infrastructure architectures of any forward-looking enterprise. Due to constant changes and rising complexities in the business and technology

landscapes, producing sophisticated architectures is on the rise. Architectural patterns are gaining a lot of attention these days. The book is divided in three modules. You'll learn about the patterns associated with object-oriented, component-based, client-server, and cloud architectures. The second module covers Enterprise Application Integration (EAI) patterns and how they are architected using various tools and patterns. You will come across patterns for Service-Oriented Architecture (SOA), Event-Driven Architecture (EDA), Resource-Oriented Architecture (ROA), big data analytics architecture, and Microservices Architecture (MSA). The final module talks about advanced topics such as Docker containers, high performance, and reliable application architectures. The key takeaways include understanding what architectures are, why they're used, and how and where architecture, design, and integration patterns are being leveraged to build better and bigger systems. Style and Approach This book adopts a hands-on approach with real-world examples and use cases.

Discovering Cognitive Architecture by Selectively Influencing Mental Processes Jul 23 2023 One of the most successful methods for discovering the way mental processes are organized is to observe the effects in experiments of selectively influencing the processes. Selective influence is crucial in techniques such as Sternberg's additive factor method for reaction times and Jacoby's process dissociation procedure for accuracy. The successful uses of selective influence have encouraged application extensions to complex architectures, to dependent variables such as evoked potentials, and to complex interpretations. But the common

themes have become lost in the details of separate uses and specialized terminology. The book gives an introductory and unified account of the many uses of the technique in cognitive psychology. Related models from operations research and human factors are covered. The applications include dual tasks, visual and memory search, timing, categorization, and recall. The book takes a self-contained approach starting with clear explanations of the elementary notions and a building to advanced techniques. The book is written with graduate students in mind, but has content of interest to all researchers in cognitive science and cognitive engineering.

National imperatives for Earth and climate science research and applications investments over the next decade : hearing
May 29 2021

A Profile of the Software Industry Jan 17 2023 Software plays a critical role in today's global information economy. It runs the computers, networks, and devices that enable countless products and services. Software varies in size from vast enterprise and communications systems like the enormous enterprise resource planning system from SAP to the tiny app Angry Birds. This book offers a profile of the software industry and the companies in the industry. It describes the primary products and services produced; reviews its history; explains how the industry is structured; discusses its economics and competitive environment; and examines important trends and issues including globalization, workforce, regulation, and the emergence of new software business models. Software runs the computers and networks that support the flow of information in the

global economy, and this book provides a real look at the intricacies of this industry.

Geoinformatics May 09 2022 Advanced information technology infrastructure is increasingly being employed in the Earth sciences to provide researchers with efficient access to massive central databases and to integrate diversely formatted information from a variety of sources. These geoinformatics initiatives enable manipulation, modeling and visualization of data in a consistent way, and are helping to develop integrated Earth models at various scales, and from the near surface to the deep interior. This book uses a series of case studies to demonstrate computer and database use across the geosciences. Chapters are thematically grouped into sections that cover data collection and management; modeling and community computational codes; visualization and data representation; knowledge management and data integration; and web services and scientific workflows.

Geoinformatics is a fascinating and accessible introduction to this emerging field for readers across the solid Earth sciences and an invaluable reference for researchers interested in initiating new cyberinfrastructure projects of their own.

Securing Information and Communications Systems Sep 20 2020 This one-stop reference gives you the latest expertise on everything from access control and network security, to smart cards and privacy. Representing a total blueprint to security design and operations, this book brings all modern considerations into focus. It maps out user authentication methods that feature the latest biometric techniques, followed by authorization and access controls including DAC, MAC, and ABAC and how these controls are best applied in

today OCOs relational and multilevel secure database systems."

Service Oriented Enterprises Apr 20 2023 Extending beyond the technical architecture to the very philosophy of how a business should operate, the Service Orientation approach establishes fluidity across boundaries to provide agility, transparency, and fundamental competitive advantage.

Service Oriented Enterprises brings the concept of service orientation from the IT department to the boardroom, applying the precepts of service oriented technology to the underlying dynamics of how a business operates.

Implementing a technological concept as a cultural paradigm, the SOE succeeds by combining the best features from virtual, extended, real-time, and resilient enterprises to serve not just its customers, but also its trading partners,

shareholders and employees. Building primarily on the success of the Internet and the automation of business policies and processes, the Service Oriented Enterprise (SOE) is defined by three essential layers: the enterprise performance layer, the business process management layer, and the underlying service oriented architecture. This book focuses primarily on layers two and three and how the

fundamental dynamics of a business can be altered when these concepts are applied to both architecture and culture. Beginning with an overview of the emerging SOE culture, the text contrasts the new service-oriented methodologies with traditional waterfall and iterative methodologies.

Emphasizing Web Service strategies for description, discovery, and deployment techniques, the author goes deeper into service-oriented concepts describing the business

process management suite as the central core of the SOE, and introducing the Enterprise Service Bus as the backbone for integration. The text describe how modeling, executing, and continuously improving the business process and business policies lends to the development of a common language between business and IT. The book concludes by expanding on these concepts and delving into the societal and behavioral aspects of the Service Oriented Enterprise. The reality of business is no longer one where change is an unusual phenomenon; today change is the norm and the capacity for consumer-sensitive, fluid transition is vital to business survival. Service Oriented Enterprises provides the key concepts to facilitate that change.

How to Become an It Architect Jun 22 2023 Defining the various types of IT architecture in the industry, this one-of-a-kind resource highlights the rewards of becoming an architect and explores the details of the deliverables, project structure, and how to approach their creation. --

Rational Application Developer V7.5 Programming Guide Apr 08 2022 IBM® Rational® Application Developer for WebSphere® Software v7.5 (Application Developer, for short) is the full function Eclipse 3.4 based development platform for developing Java™ Standard Edition Version 6 (Java SE 6) and Java Enterprise Edition Version 5 (Java EE 5) applications with a focus on applications to be deployed to IBM WebSphere Application Server and IBM WebSphere Portal. Rational Application Developer provides integrated development tools for all development roles, including Web developers, Java developers, business analysts, architects, and enterprise programmers. Rational Application Developer

is part of the IBM Rational Software Delivery Platform (SDP), which contains products in four life cycle categories:

- Architecture management, which includes integrated development environments - Change and release management - Process and portfolio management - Quality management

This IBM Redbooks™ publication is a programming guide that highlights the features and tooling included with Rational Application Developer v7.5. Many of the chapters provide working examples that demonstrate how to use the tooling to develop applications, as well as achieve the benefits of visual and rapid application development.

This publication is an update of Rational Application Developer V7 Programming Guide, SG24-7501.

The Internet of Things Jul 19 2020 This book provides a dual perspective on the Internet of Things and ubiquitous computing, along with their applications in healthcare and smart cities. It also covers other interdisciplinary aspects of the Internet of Things like big data, embedded Systems and wireless Sensor Networks. Detailed coverage of the underlying architecture, framework, and state-of the art methodologies form the core of the book.

Delphi Programming Projects May 17 2020 Improve your Delphi programming skills by building robust applications for Android, iOS, and Windows platform Key FeaturesBuild responsive user interfaces (UIs) for desktop and mobile with FireMonkeyImplement a microservices architecture using the Rapid Application Development(RAD) serverCreate clones of popular applications like Instagram and Facebook using Delphi 10.3Book Description Delphi is a cross-platform programming language and software development kit that

supports rapid application development for Microsoft Windows, Apple Mac OS X, Android, and iOS. With the help of seven practical projects, this book will guide you through the best practices, Delphi Run-Time Library (RTL) resources, and design patterns. Whether you use the Visual Component Library (VCL) or FireMonkey (FMX) framework, these design patterns will be implemented in the same way in Delphi, using Object Pascal. In the first few chapters, you will explore advanced features that will help you build rich applications using the same code base for both mobile and desktop projects. In addition to this, you'll learn how to implement microservice architecture in Delphi. As you get familiar with the various aspects of Delphi, you will no longer need to maintain source code for similar projects, program business rules on screens, or fill your forms with data access components. By the end of this book, you will have gained an understanding of the principles of clean code and become proficient in building robust and scalable applications in Delphi. What you will learn

- Get to grips with the advanced features of RTL
- Understand how to deal with the paradigm change between multiplatform projects
- Build rich interfaces with Google's Material Design features
- Understand how to implement design patterns in Delphi
- Turn a mobile device into a remote controller with app tethering technology
- Build a multi-database system using VCL

Who this book is for This book is for developers, programmers, and IT professionals who want to learn the best market practices by implementing practical projects. Prior knowledge of the Delphi language is a must.

TIBCO Architecture Fundamentals Nov 15 2022

“TIBCO® Architecture Fundamentals is a must-read for anybody involved with the architecture and design of distributed systems, system integration issues, or service-based application design.” —Bert Hooyman, Chief Architect, Europe, for MphasiS (an HP Company) “I would like all the folks on my team to read this, to ensure we are all on the same page with the deliverables that are expected from architecture teams involved in global projects and the role that the TIBCO tools play in implementing these solutions.” —Joseph G. Meyer, Director of Architecture Services and R&D, Citi TIBCO’s product suite comprises a diverse range of components. Each component is specialized for a particular functionality, ranging from basic messaging through services, service orchestration, the management of complex business processes, managing master data across multiple systems, and the interpretation of massive streams of events (complex event processing). The architecture series from TIBCO® Press comprises a coordinated set of books for software architects and developers, showing how to combine TIBCO components to design and build real-world solutions. TIBCO® Architecture Fundamentals is the core book for understanding and using the TIBCO product suite. It focuses on the TIBCO ActiveMatrix® product suite and a handful of the other most commonly used components, including the TIBCO Enterprise Message Service™ and TIBCO BusinessEvents™. The book provides a sound basis for applying TIBCO products to solve the most common integration and SOA challenges faced by architects and developers. In addition, it lays the foundation for the more advanced books to be added to the architecture series.

Designed to make the material as accessible as possible, the book starts with concrete problems architects and developers face every day, showing how to solve these problems with combinations of TIBCO (and selected third-party) products. In the context of specific design scenarios, it also discusses key concepts and decision trade-offs. To accomplish its practical aims, the book Provides useful techniques for discussing and documenting architectures Presents reference architectures (design patterns) for solving common SOA and system integration problems Describes each problem and solution from both business process and technical perspectives Supplies an overview of the typical solution roles played by different TIBCO products The book largely avoids the code-level detail already available in the product manuals, concentrating instead on blueprints for solving whole classes of problems.

SOA Principles of Service Design Nov 22 2020 The Definitive Guide to Service Engineering The key to succeeding with service-oriented architecture (SOA) is in comprehending the meaning and significance of its most fundamental building block: the service. It is through an understanding of service design that truly “service-oriented” solution logic can be created in support of achieving the strategic goals associated with SOA and service-oriented computing. Bestselling SOA author Thomas Erl guides you through a comprehensive, insightful, and visually rich exploration of the service-orientation design paradigm, revealing exactly how services should and should not be designed for real-world SOA.

Service Oriented Architecture For Dummies May 21 2023

SOA is the most important initiative facing IT and is difficult to grasp. This book demystifies the topic of SOA and makes it accessible to those people who hear the term but aren't really sure what it means. It covers what SOA is, why it matters, how it can impact businesses, and how to take steps to implement SOA in a corporate environment.

Blockchain across Oracle Aug 12 2022 Learn what the Blockchain is, what the differences between available blockchain platforms are, how to work with Oracle's Blockchain Cloud Service, and how Blockchain can change the direction of your Oracle work and the focus of your customers. Key FeaturesA professional orientation of the Blockchain for Oracle developers and customersLearn what the Blockchain is and how it will affect for you and your customersLearn how blockchain will disrupt traditional cross-organizational applicationsImplement your own Blockchain on Oracle and develop your first smart contract Industry directions of the Blockchain to help you decide where to develop your skillsBook Description *Blockchain across Oracle* gives you the professional orientation to Blockchain that you need as an Oracle developer in today's changing world. Written and prepared for you by Oracle Developer Champion Robert van Mülken, this book gets you up to speed with the details of the Blockchain - core concepts, how to implement Oracle's Blockchain Cloud Service, industry implications for the Blockchain, and how the Blockchain will affect your Oracle customers. Robert van Mülken introduces you to the history and concepts of the Blockchain. You'll really get to understand the Blockchain inside and out, as an Oracle developer or solution architect.

You'll understand the Blockchain flow, and how the hashes and chains create a new decentralised paradigm for you as an Oracle developer. You'll gain insights into how the Blockchain affects Oracle developers and customers in this modern and disruptive era. You'll see how the Blockchain concepts work in this new world where Assets, Transactions, Security, and Privacy, can all be sustained across a decentralized system for your customers. Then you'll find a detailed look at the cutting-edge Oracle middleware solutions. You'll learn about Hyperledger Fabric, the opensource Blockchain framework used by Oracle as its core, and how to set up your own Oracle Blockchain Network. You'll design and develop a smart contract, and learn how to run it on the Oracle Blockchain Cloud Service. The final part of the book looks at how the Blockchain will affect your customers across various industry sectors. By studying industry trends in the financial services sector, healthcare industry, and the transport industry, you'll discover how the options and possibilities for you and your clients are being transformed by the Blockchain across Oracle. You'll complete this professional orientation by looking at Blockchain trends and future directions. What you will learn

A full introduction to the Blockchain
How the Blockchain affects Oracle developers and customers
Core concepts including blocks, hashes, and chains, assets, transactions, and consensus
How to work with Oracle Cloud to implement a Blockchain Network
Design, develop, and run smart contracts on the Oracle Blockchain Cloud Service
Blockchain security and privacy for Oracle developers and clients
Public and private Blockchain

decisions for Oracle architects and developers
Industry analysis across finance, governance, and healthcare sectors
Industry trends and the future of the Blockchain technology
Who this book is for This book is a professional orientation for all Oracle developers, solution architects, and decisions makers involved in Oracle system and future development.

Autonomic Network Management Principles Oct 02 2021
Autonomic networking aims to solve the mounting problems created by increasingly complex networks, by enabling devices and service-providers to decide, preferably without human intervention, what to do at any given moment, and ultimately to create self-managing networks that can interface with each other, adapting their behavior to provide the best service to the end-user in all situations. This book gives both an understanding and an assessment of the principles, methods and architectures in autonomous network management, as well as lessons learned from, the ongoing initiatives in the field. It includes contributions from industry groups at Orange Labs, Motorola, Ericsson, the ANA EU Project and leading universities. These groups all provide chapters examining the international research projects to which they are contributing, such as the EU Autonomic Network Architecture Project and Ambient Networks EU Project, reviewing current developments and demonstrating how autonomic management principles are used to define new architectures, models, protocols, and mechanisms for future network equipment. Provides reviews of cutting-edge approaches to the management of complex telecommunications, sensors, etc. networks based on new

autonomic approaches. This enables engineers to use new autonomic techniques to solve complex distributed problems that are not possible or easy to solve with existing techniques. Discussion of FOCALÉ, a semantically rich network architecture for coordinating the behavior of heterogeneous and distributed computing resources. This provides vital information, since the data model holds much of the power in an autonomic system, giving the theory behind the practice, which will enable engineers to create their own solutions to network management problems. Real case studies from the groups in industry and academia who work with this technology. These allow engineers to see how autonomic networking is implemented in a variety of scenarios, giving them a solid grounding in applications and helping them generate their own solutions to real-world problems.

BPMN 2.0 Handbook Second Edition Apr 15 2020

Examines what's new and updated in BPMN 2.0 and look at interchange, best practice, analytics, conformance, optimization, choreography from a technical perspective. Also addresses the business imperative for widespread adoption of the standard by examining best practice guidelines, BPMN business strategy and the human interface including real-life case studies. Other chapters tackle the practical aspects of making BPMN model executable and the basic time-line analysis of a BPMN model.

Internet of Things Jul 31 2021 Internet of Things:

Technologies and Applications for a New Age of Intelligence outlines the background and overall vision for the Internet of Things (IoT) and Cyber-Physical Systems (CPS), as well as

associated emerging technologies. Key technologies are described including device communication and interactions, connectivity of devices to cloud-based infrastructures, distributed and edge computing, data collection, and methods to derive information and knowledge from connected devices and systems using artificial intelligence and machine learning. Also included are system architectures and ways to integrate these with enterprise architectures, and considerations on potential business impacts and regulatory requirements. Presents a comprehensive overview of the end-to-end system requirements for successful IoT solutions Provides a robust framework for analyzing the technology and market requirements for a broad variety of IoT solutions Covers in-depth security solutions for IoT systems Includes a detailed set of use cases that give examples of real-world implementation

Incremental Software Architecture Oct 22 2020 The best-practices solution guide for rescuing broken software systems Incremental Software Architecture is a solutions manual for companies with underperforming software systems. With complete guidance and plenty of hands-on instruction, this practical guide shows you how to identify and analyze the root cause of software malfunction, then identify and implement the most powerful remedies to save the system. You'll learn how to avoid developing software systems that are destined to fail, and the methods and practices that help you avoid business losses caused by poorly designed software. Designed to answer the most common questions that arise when software systems negatively impact business performance, this guide details

architecture and design best practices for enterprise architecture efforts, and helps you foster the reuse and consolidation of software assets. Relying on the wrong software system puts your company at risk of failing. It's a question of when, not if, something goes catastrophically wrong. This guide shows you how to proactively root out and repair the most likely cause of potential issues, and how to rescue a system that has already begun to go bad. Mitigate risks of software development projects Increase ROI and accelerate time-to-market Accurately assess technological achievability and viability Identify actual software construction value propositions Fierce competition and volatile commerce markets drive companies to invest heavily in the construction of software systems, which strains IT and business budgets and puts immense strain on existing network infrastructure. As technology evolves, these ever-more-complex computing landscapes become more and more expensive and difficult to maintain. Incremental Software Architecture shows you how to revamp the architecture to effectively reduce strain, cost, and the chance of failure.

Service Orient or Be Doomed! Jan 25 2021 How Service Orientation Will Change Your Business "The real value of this book is that it makes SOA and Webservices, which are critical and business-transforming, crystal-clear to the layman, both business and IT leaders. The book stays focused on the real-world issues facing business and government institutions today. In an industry full of experts of many stripes, Ron and Jason are the real thing: savvy, experienced, and realistic. They have produced a must-read book for management." —Paul Lipton, Senior Architect,

Unicenter Web Services and Application Management
Computer Associates "This is by far the finest publication on SOA of our time. From cover to back, Service Orient or Be Doomed! strips away the layers of confusion most IT stakeholders face when confronted with enterprise architecture, and illustrates pragmatic and practical paths towards a sustainable and efficient enterprise architecture. Both the technically savvy and the bean counters will enjoy this book that speaks to the critical points they need to understand." —Duane A. Nickull Senior Standards Strategist, Adobe Systems, Inc. Chair, OASIS SOA Reference Model Technical Committee Vicechair, United Nations CEFAC (UN/CEFAC) "If you're looking for a guide that's based on reality, this is it. These guys know how you can service-orient your enterprise and have the best chance of success. This book is the best SOA tool you can buy. I'm recommending it to everyone." —Dave Linthicum, CEO, BRIDGEWERX "Jason and Ron are experts on Service-Oriented Architecture (SOA) and have written the first book that is aimed at helping a non-technical businessperson understand why the SOA computing revolution is critical to business. Rather than provide a nerdy death via buzzword book, Jason and Ron take a humorous, clever, and insightful romp through this new technology and how it impacts business in general." —Brad Feld, Mobius Venture Capital Authors Jason Bloomberg and Ronald Schmelzer—senior analysts for highly respected IT advisory and analysis firm ZapThink—say it all in the title of their new book, Service Orient or Be Doomed!: How Service Orientation Will Change Your Business. That is, if you fail to

service orient your company, you will fail in competing with the organizations that do. This provocative new book takes service orientation out of its more familiar technological surroundings within service-oriented architecture and introduces it as a philosophy that advocates its rightful place within a business context, redefining it as a new way of thinking about organizing your business and its processes. Informal, challenging, and intelligent in style, *Service Orient or Be Doomed!: How Service Orientation Will Change Your Business* shows you how you can best use technology resources to meet your company's business goals and empower your company to go from "stuck" to "competitive."

[Service-oriented Architecture Compass](#) Sep 13 2022

Providing a foundation for enterprise architects on the principles of service-oriented architecture, this text offers guidance on how to begin transitioning an IT infrastructure toward the SOA model, an operation tightly integrated into business processes and operations.

Integrating a Usable Security Protocol into User

Authentication Services Design Process Feb 23 2021

There is an intrinsic conflict between creating secure systems and usable systems. But usability and security can be made synergistic by providing requirements and design tools with specific usable security principles earlier in the requirements and design phase. In certain situations, it is possible to increase usability and security by revisiting design decisions made in the past; in others, to align security and usability by changing the regulatory environment in which the computers operate. This book addresses creation of a usable security protocol for user authentication as a natural outcome of the

requirements and design phase of the authentication method development life cycle.

Software Architecture Knowledge Management Nov 03 2021

A software architecture manifests the major early design decisions, which determine the system's development, deployment and evolution. Thus, making better architectural decisions is one of the large challenges in software engineering. Software architecture knowledge management is about capturing practical experience and translating it into generalized architectural knowledge, and using this knowledge in the communication with stakeholders during all phases of the software lifecycle. This book presents a concise description of knowledge management in the software architecture discipline. It explains the importance of sound knowledge management practices for improving software architecture processes and products, and makes clear the role of knowledge management in software architecture and software development processes. It presents many approaches that are in use in software companies today, approaches that have been used in other domains, and approaches under development in academia. After an initial introduction by the editors, the contributions are grouped in three parts on "Architecture Knowledge Management", "Strategies and Approaches for Managing Architectural Knowledge", and "Tools and Techniques for Managing Architectural Knowledge". The presentation aims at information technology and software engineering professionals, in particular software architects and software architecture researchers. For the industrial audience, the book gives a broad and concise understanding of the importance of

knowledge management for improving software architecture process and building capabilities in designing and evaluating better architectures for their mission- and business-critical systems. For researchers, the book will help to understand the applications of various knowledge management approaches in an industrial setting and to identify research challenges and opportunities.

Adaptive, Dynamic, and Resilient Systems Dec 04 2021 As the complexity of today's networked computer systems grows, they become increasingly difficult to understand, predict, and control. Addressing these challenges requires new approaches to building these systems. Adaptive, Dynamic, and Resilient Systems supplies readers with various perspectives of the critical infrastructure that systems of networked computers rely on. It introduces the key issues, describes their interrelationships, and presents new research in support of these areas. The book presents the insights of a different group of international experts in each chapter. Reporting on recent developments in adaptive systems, it begins with a survey of application fields. It explains the requirements of such fields in terms of adaptation and resilience. It also provides some abstract relationship graphs that illustrate the key attributes of distributed systems to supply you with a better understanding of these factors and their dependencies. The text examines resilient adaptive systems from the perspectives of mobile, infrastructure, and enterprise systems and protecting critical infrastructure. It details various approaches for building adaptive, dynamic, and resilient systems—including agile, grid, and autonomic computing; multi-agent-based and biologically inspired

approaches; and self-organizing systems. The book includes many stories of successful applications that illustrate a diversified range of cutting-edge approaches. It concludes by covering related topics and techniques that can help to boost adaptation and resilience in your systems.

Sams Teach Yourself SAP in 24 Hours Feb 06 2022 Third Edition: Thoroughly Updated and Expanded, with Extensive New Coverage! In just 24 sessions of one hour or less, you'll master the entire SAP project lifecycle, from planning through implementation and system administration through day-to-day operations. Using this book's straightforward, step-by-step approach, you'll gain a strong real-world foundation in both the technology and business essentials of today's SAP products and applications—from the ground up. Step-by-step instructions walk you through the most common questions, issues, and tasks you'll encounter with SAP. Case study-based exercises help you build and test your knowledge. By the Way notes present interesting pieces of information. Did You Know? tips offer advice or teach an easier way. Watch Out! cautions warn about potential problems. Learn how to... Understand SAP's newest products for enterprises and small-to-midsize businesses, and choose the right solutions for your company Discover how SAP integrates with Web services and service-oriented architecture Develop an efficient roadmap for deploying SAP in your environment Plan your SAP implementation from business, functional, technical, and project management perspectives Leverage NetWeaver 7.0 features to streamline development and integration, and reduce cost Walk through a step-by-step SAP technical installation Master basic SAP

system administration and operations Perform essential tasks such as logon, session management, and printing Build SAP queries and reports Prepare for SAP upgrades and enhancements Develop your own personal career as an SAP professional Register your book at informit.com/title/9780137142842 for convenient access to updates and corrections as they become available.

Mastering SoapUI Mar 27 2021 Master the art of testing and automating your SOA using SoapUI About This Book Design real-time test automation frameworks for Enterprise applications using SoapUI Learn how to solve test automation issues for complex systems A complete guide to understanding SOA automation from quality assurance to business assurance Who This Book Is For The book is intended for test architects, SOA test specialists, automation testers, test managers, and software developers who have a good understanding of SOA, web services, Groovy Scripting, and the SOAP UI tool. What You Will Learn Familiarize yourself with Test Web services from functional, nonfunctional, and security aspects Learn to test real-time service orchestrations Design test automation solutions for SOA-based Enterprise applications Learn multilayer test automation Selenium plus SoapUI under a single umbrella Integrate your SoapUI framework with Jenkins In Detail SoapUI is an open-source cross-platform testing application that provides complete test coverage and supports all the standard protocols and technologies. This book includes real-time examples of implementing SoapUI to achieve quality and business assurance. Starting with the features and functionalities of SoapUI, the book will then focus on

functional testing, load testing, and security testing of web services. Furthermore, you will learn how to automate your services and then design data-driven, keyword-driven, and hybrid-driven frameworks in SoapUI. Then the book will show you how to test UIs and services using SoapUI with the help of Selenium. You will also learn how to integrate SoapUI with Jenkins for CI and SoapUI test with QC with backward- and forward-compatibility. The final part of the book will show you how to virtualize a service response in SoapUI using Service Mocking. You will finish the journey by discovering the best practices for SoapUI test automation and preparing yourself for the online certification of SoapUI. Style and approach Filled with real-time examples, this book will help readers take their knowledge to the next level. This book is a comprehensive guide that will cover the end-to-end life cycle of implementing SoapUI in various phases of software testing and the software development life cycle.

Ubiquitous Health and Medical Informatics: The Ubiquity 2.0 Trend and Beyond Jul 11 2022 "This book is specific to the field of medical informatics and ubiquitous health care and highlights the use of new trends based on the new initiatives of Web 2.0"--Provided by publisher.

Essentials of Cloud Computing Sep 01 2021 Cloud computing—accessing computing resources over the Internet—is rapidly changing the landscape of information technology. Its primary benefits compared to on-premise computing models are reduced costs and increased agility and scalability. Hence, cloud computing is receiving considerable interest among several stakeholders—businesses, the IT industry, application

developers, researchers, and students. To successfully embrace this new computing model, these stakeholders need to acquire new cloud computing skills and knowledge. This book is designed to provide readers with a clear and thorough understanding of the key aspects of cloud computing. Presented in an easy-to-understand style, *Essentials of Cloud Computing* begins with an introduction to basic cloud computing concepts. It then covers cloud computing architecture, deployment models, programming models, and cloud service types, such as Software as a Service (SaaS) and Infrastructure as a Service (IaaS). It also discusses the cloud's networking aspects, major service providers, open source support, and security issues. The book concludes with a discussion of several advanced topics, such as mobile clouds, media clouds, and green clouds. This book is intended for beginners as well as experienced practitioners who want to learn more about cloud computing. It includes many case studies, programming examples, and industry-based applications. Each chapter concludes with review questions that help readers check their understanding of the presented topics. *Essentials of Cloud Computing* will help readers understand the issues and challenges of cloud computing and will give them the tools needed to develop and deploy applications in clouds.

Green IT Strategies and Applications Mar 07 2022 Bhuvan Unhelkar takes you on an all-encompassing voyage of environmental sustainability and Green IT. Sharing invaluable insights gained during two battle-tested decades in the information and communication technologies industry, he provides a comprehensive examination of the wide-ranging

aspects of Green IT—from switching-off monitors, virtualizing data centers, and optimizing processes to bringing attitude change through training and the use of green metrics for reporting. Combining extensive research, literature review experimentation, and decades of practical consulting experience, *Green IT Strategies and Applications: Using Environmental Intelligence* is your complete reference for undertaking a successful Green IT transformation. The environmentally responsible business strategies described in this book include motivators and drivers, transformation phases, management of risks, measuring and reporting of carbon, compliance with the ISO14000 family of standards, and the crucial nexus between Lean and green—resulting in what can be called Environmental Intelligence. This environmentally conscious IT reference delves beyond the corporate responsibilities of organizations in a market-driven economy to demonstrate the importance of carbon management as an integral part of good business management. Increasing profits, reducing costs, applying innovations in business, adhering to government standards, process management, and the socio-cultural aspects of business are all masterfully intertwined with Green IT issues. This book is equipped with case studies from different industrial sectors, including hospital (service), packaging (product), and telecom (infrastructure). It provides a complete suite of strategies, applications, tools, and techniques that will enable you to establish company-wide environmental strategies, a green value system, and the forward thinking required to properly position your organization for the low-carbon economy on the horizon.

