Tibco Architecture

Emerging Technology Strategies and the Great Global Grid The next generation of the Internet will produce dramatic economic and social changes exceeding even the World Wide Web. Several emerging technologies are converging to create a Great Global Grid infrastructure where universal connectivity to large computing resources will be available for consumers and enterprises. The goal of this book is to provide a systematic survey of the full spectrum of Great Global Grid technologies from an enterprise viewpoint. The Great Global Grid - The range of technologies comprising the Great Global Grid is very wide. One of the main contributions of the book is to categorize these technologies in detail and to explain the dependencies among them. The technologies include: Application Servers and Portals Enterprise Application Integration and B2B Middleware Web Services and XML Messaging Peer-to-Peer Collaboration Pervasive Computing: Middleware and Software Platforms Distributed Resource Managers, Clusters and Grids Global Grid Middleware Conclusions for the Future Emerging Technology Strategies - The book does not hype these technologies or their benefits. Section 1 of the book describes examples of past emerging technologies that failed to realize their initial vision. Based on the lessons learned from these experiences, a pragmatic technology evaluation template is created that includes: Overview of the technology Relationships to other technologies Important technical and business trends Specific applications Industry and official standards Vendor overview by application area Leading implementation approaches Advice on deployment Future technical and business directions Recommendations Audience - The information collected in this book is not available from any other single source. The broad range of technologies, standards and vendors covered is necessary to understand the future enterprise applications of the Internet. The following groups should find the contents of this book especially valuable. Decision makers for the evaluation strategy and discussions of current products, standards and open issues Developers and architects for the overview of many advanced software technologies and their relationships Consultants for the industry analysis of vendors and business applications Futurists for the trends and research that are the basis of the next generation Internet Students for the industrial applications and open source projects

Annotation In this book, Rick van der Lans explains how data virtualization servers work, what techniques to use to optimize access to various data sources and how these products can be applied in different projects.

This new almanac will be your ready-reference guide to the E-Commerce & Internet Business worldwide! In one carefully-researched volume, you'll get all of the data you need on E-Commerce & Internet Industries, including: complete E-Commerce statistics and trends; Internet research and development; Internet growth companies; online services and markets; bricks & clicks and other online retailing strategies; emerging e-commerce technologies; Internet and World Wide Web usage trends; PLUS, in-depth profiles of over 400 E-Commerce & Internet companies: our own unique list of companies that are the leaders in this field. Here you'll find complete profiles of the hot companies that are making news today, the largest, most successful corporations in all facets of the E-Commerce Business, from online retailers, to manufacturers of software and equipment for Internet communications, to Internet services providers and much more. Our corporate profiles include executive contacts, growth plans, financial records, address, phone, fax, and much more. This innovative book offers unique information, all indexed and cross-indexed. Our industry analysis section covers business to consumer, business to business, online financial services, and technologies as well as Internet access and usage trends. The book includes numerous statistical tables covering such topics as e-commerce revenues, access trends, global Internet users, etc. Purchasers of either the book or PDF version can receive a free copy of the company profiles database on CD-ROM, enabling key word search and export of key information, addresses, phone numbers and executive names with titles for every company profiled.

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.

An Approach for Data Scientists

Integrating Soa and Web Services

Cable Optics Monthly Newsletter

Enterprise Integration Patterns

Service-Driven Approaches to Architecture and Enterprise Integration

Architecting Complex-Event Processing Solutions with TIBCO

"... To sum up, there should be a copy on the bookshelf of all engineers responsible for detailed planning of the Product Delivery Process (PDP). The Editors highlight the impressive gains reported by companies exploiting the potential of coordinating organizational units and integrating information flows and planning efforts along a supply chain. This publication is strong on coordination and planning. It is therefore recommended as an up-to-date source book for these particular aspects of SCM." International Journal of Production Research 2001/Vol. 39/13

"Complex-event processing is simple in principle but hard to do well in practice. This guide presents the principles and motivations for those new to the subject. More importantly, it details the entire thought-landscape of a complete implementation, using TIBCO products as the background. Well worth the read for anyone who is thinking of implementing a complex-event solution. Those who have already implemented one should read it as well, both for another perspective and for a view of the capabilities of the TIBCO products." Lloyd Fischer, Senior Software Architect, WellCare Health Plans This complete guide drives you through the specifics of complex-event processing (CEP) design concepts. The book covers all the fundamental aspects and design phases relevant for any TIBCO CEP project implementation, from design through performance-tuning and deployment. I would highly recommend this book to any reader interested in CEP concepts, although a small amount of TIBCO technology knowledge will let you appreciate it more. Antonio Bruno, Infrastructure Account Manager, UBS AG The architecture series from TIBCO® Press comprises a coordinated set of titles for software architects and developers, showing how to combine TIBCO components to design and build real-world solutions. Complex-event processing is required when multiple events occurring throughout an organization must be sensed, analyzed, prioritized, and acted on in real time. Architecting Complex-Event Processing Solutions with TIBCO® shows how to design and architect complex-event processing systems, addressing all their complexities and achieving maximum efficiency and effectiveness, while delivering superior business value. After reading this book, you will be able to Identify opportunities for competitive differentiation through complex-event processing Describe differences between complex-event processing and traditional systems Understand relevant capabilities of the TIBCO BusinessEvents product suite Select building-block design patterns for constructing complex-event processing solutions with TIBCO BusinessEvents Address architectural aspects of moving solutions into production Implement proven approaches to designing fault tolerance and high availability Architecting Complex-Event Processing Solutions with TIBCO® is intended for working architects, designers, and developers who want to apply TIBCO products in complex-event processing applications. It is also required reading for anyone seeking TIBCO Certified Architect status.

R for Cloud Computing looks at some of the tasks performed by business analysts on the desktop (PC era) and helps the user navigate the wealth of information in R and its 4000 packages as well as transition the same analytics using the cloud. With this information the reader can select both cloud vendors and the sometimes confusing cloud ecosystem as well as the R packages that can help process the analytical tasks with minimum effort, cost and maximum usefulness and customization. The use of Graphical User Interfaces (GUI) and Step by Step screenshot tutorials is emphasized in this book to lessen the famous learning curve in learning R and some of the needless confusion created in cloud computing that hinders its widespread adoption. This will help you kick-start analytics on the cloud including chapters on both cloud computing, R, common tasks performed in analytics including the current focus and scrutiny of Big Data Analytics, setting up and navigating cloud providers. Readers are exposed to a breadth of cloud computing choices and analytics topics without being buried in needless depth. The included references and links allow the reader to pursue business analytics on the cloud easily. It is aimed at practical analytics and is easy to transition from existing analytical set up to the cloud on an open source system based primarily on R. This book is aimed at industry practitioners with basic programming skills and students who want to enter analytics as a profession. Note the scope of the book is neither statistical theory nor graduate level research for statistics, but rather it is for business analytics practitioners. It will also help researchers and academics but at a practical rather than conceptual level. The R statistical software is the fastest growing analytics platform in the world, and is established in both academia and corporations for robustness, reliability and accuracy. The cloud computing paradigm is firmly established as the next generation of computing from microprocessors to desktop PCs to cloud.

This is the eBook version of the book and does not include a CD. All CD materials are available for download at informit.com/title/0321563298 ¿ Web Development with TIBCO General Interface Building AJAX Clients for Enterprise SOA ¿ Anil Gurnani ¿ Use TIBCO General Interface to build web applications with state-of-the-art performance and usability ¿ TIBCO General Interface provides powerful tools and a framework to craft AJAX-based web applications that rival desktop applications in performance and usability. This is the only book that offers developers thorough guidance for using TIBCO's award-winning open source tools to build interactive, high-performance GUIs and integrate them with leading server-side technologies. Experienced TIBCO General Interface developer Anil Gurnani focuses on applying General Interface in real-world production applications and presents numerous working examples that can easily be adapted for your existing sites and applications. ¿ You'll first walk through the fundamental concepts and techniques needed to build powerful General Interface clients. Next, you'll dive into specific back-end technologies, mastering them through start-to-finish case study projects. Finally, drawing on his own experience building enterprise-class General Interface applications for the financial services industry, Gurnani illuminates advanced topics ranging from charting and collaboration to application optimization. Coverage includes Integrating XML and XSL with TIBCO General Interface's XML Mapping utility Extending General Interface widgets with object-oriented JavaScript Integrating with web services, databases, portals, and messaging systems: start-to-finish case study sample applications Integrating General Interface applications into service-oriented enterprises using Enterprise Service Bus (ESB) Using OpenAJAX Hub (TIBCO PageBus) to simplify collaboration among GUI components ¿ Anil Gurnani's book greatly augments the available information for developers learning and using TIBCO's General Interface. With this book, you will quickly be building General Interface applications, faster and easier than ever before. Michael Peachey, co-founder of General Interface and Director of User Experience, TIBCO Software ¿ Anil Gurnani has written extensively on technical topics for many prestigious magazines. He is an adjunct at SCPS, New York University, where he teaches advanced courses focused on web and enterprise technologies including Core Java, JEE, and .NET. He is also an expert at managing large, global, multifunctional teams to architect and build complex distributed systems with a portfolio of front-end applications and back-end services.

The Transverse Information System

Enterprise Information Portals and Knowledge Management

Informationweek

Research and practical applications in the Dicode project

Architecting Bpm Solutions With Tibco

Concepts, Models, Software and Case Studies

This book highlights how to integrate and realize Service Oriented Architecture with web services which is one of the emerging technologies in IT. It also focuses on the latest technologies, such as Metadata Management, Security issues, Quality of Service and its commercialization. A chapter is also devoted to the study of Emerging standards and development tools for Enterprise Application Integration. Most enterprises have made extensive investments in system resources over the course of many years. Such enterprises have an enormous amount of data stored in legacy enterprise information systems (EIS), so it is not practical to discard existing systems. It is more cost-effective to evolve and enhance EIS. This could be done with the help of SOA realizing with web services, which is an emerging field in Information technology. SOA is usually realized through web services. Web services specifications may add to the confusion of how to best to utilize SOA to solve business problems. In order for a smooth transition to SOA, using an architectural style that helps in realizing web services through SOA. The book concentrates on this architecture, realization and integration of SOA with web services. It consists of 12 chapters and is recommended for all postgraduate Computer Science Students.

Giving organizations the ability to track, secure, and manage items from the time they are raw materials through the life-cycle of the product, radio frequency identification (RFID) makes internal processes more efficient and improves overall supply chain responsiveness. Helping you bring your organization into the future, RFID in the Supply Chain: A Guide to Selection and Implementation explains RFID technology, its applications in SCM, data storage and retrieval, business processes, operational and implementation problems, risks, security and privacy, facility layout, handling systems and methods, and transportation costs. In short, with its soup-to-nuts coverage, the book ensures that your RFID implementation is successful and that you get the most from your investment. The book discusses the major paradigm shift in product traceability that began with transitioning to RFID technology from bar code technology. It examines the economic feasibility of rolling out RFID and the challenges in supply chain synchronization, customer privacy, security, operations and IT, logistics, program management, education and training, and implementation, as well as what lessons have been learned. The author addresses the RFID business processes needed to analyze and resolve problems the suppliers face when they deal with multiple customers, each with a different mandate, and with their own set of suppliers. Going beyond the technology and how it has changed supply chain processes, the book includes selection guidelines and implementation examples, such as speed of tag reads versus quality of computer inputs and optimal tag location. The author discusses the implementation of a business process model and the separate but equal concerns that business and IT executives have about the implementation of RFID applications. The book also covers security, integrated control management linked to the corporate strategy, and laws and regulations.

This is a comprehensive review of research related to construction informatics, with a particular focus on the related 5th framework EU projects on product and process technology and the implementation of the new economy technologies and business models in the construction industry.

If you are a business user or data professional, this book will give you a solid grounding in the use of TIBCO Spotfire. This book assumes no prior knowledge of Spotfire or even basic data and visualization concepts.

Business Intelligence

Mastering Data-Intensive Collaboration and Decision Making

TIBCO Spotfire – A Comprehensive Primer

Practices, Technologies, and Management

Volume 2

Now, two leading IBM solution architects show you how to use DB2 to create flexible infrastructures that simplify the construction of any enterprise-class business solution.

TIBCO Architecture FundamentalsAddison-Wesley

"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 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 ofmassive 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 ServiceTM and TIBCO BusinessEventsTM. 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.

This book is a thorough introduction to Java Message Service (JMS), the standard Java application program interface (API) from Sun Microsystems that supports the formal communication known as "messaging" between computers in a network. JMS provides a common interface to standard messaging protocols and to special messaging services in support of Java programs. The messages exchange crucial data between computers, rather than between users--information such as event notification and service requests. Messaging is often used to coordinate programs in dissimilar systems or written in different programming languages.Using the JMS interface, a programmer can invoke the messaging services of IBM's MQSeries, Progress Software's SonicMQ, and other popular messaging product vendors. In addition, JMS supports messages that contain serialized Java objects and messages that contain Extensible Markup Language (XML) pages.Messaging is a powerful new paradigm that makes it easier to uncouple different parts of an enterprise application. Messaging clients work by sending messages to a message server, which is responsible for delivering the messages to their destination. Message delivery is asynchronous, meaning that the client can continue working without waiting for the message to be delivered. The contents of the message can be anything from a simple text string to a serialized Java object or an XML document.Java Message Service shows how to build applications using the point-to-point and publish-and-subscribe models; how to use features like transactions and durable subscriptions to make an application reliable; and how to use messaging within Enterprise JavaBeans. It also introduces a new EJB type, the MessageDrivenBean, that is part of EJB 2.0, and discusses integration of messaging into J2EE.

SOA Cookbook

Plunkett's E-Commerce & Internet Business Almanac 2008

InfoWorld

Tibco 36 Success Secrets - 36 Most Asked Questions on Tibco - What You Need to Know

ISDN User Newsletter

Supply Chain Management and Advanced Planning

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Business professionals who want to advance their careers need to have a strong understanding of how to utilize business intelligence. This new book provides a comprehensive introduction to the basic business and technical concepts they'll need to know. It integrates case studies that demonstrate how to apply the material. Business professionals will also find suggested further readings that will develop their knowledge and help them succeed.

Getting a Desired Business Return on Your Service-Oriented Architecture (SOA) Investment Today, business processes and information systems are so tightly intertwined that they must be designed together, as parts of a total architecture, to realize enterprise goals. In Succeeding with SOA , Paul Brown shows how service-oriented architectures (SOAs) provide the best structure for such integration: clean, well-defined interfaces between collaborating entities. But even SOAs need to be correctly understood and implemented to avoid common failures. Drawing on decades of experience, Dr. Brown explains what business managers and IT architects absolutely need to know--including critical success factors--to undertake this essential work. Coverage includes Setting clear and reasonable expectations for SOA's benefits Understanding why conventional project management techniques don't scale to today's enterprise-wide projects Defining a living roadmap for developing services based on business priorities Establishing coherent leadership that brings together business executives, IT leaders, and the SOA architecture group Using Total Architecture Synthesis (TAS) to rapidly develop business processes and information systems together Understanding the central role of architecture--and making sure the right architectural decisions get made Whether you're a business or technical leader, this book will help you plan, organize, and execute SOA initiatives that meet or exceed their goals--now, and for years to come.

There has never been a TIBCO Guide like this. It contains 36 answers, much more than you can imagine; comprehensive answers and extensive details and references, with insights that have never before been offered in print. Get the information you need--fast! This all-embracing guide offers a thorough view of key knowledge and detailed insight. This Guide introduces what you want to know about TIBCO. A quick look inside of some of the subjects covered: Message broker - List of message broker software, TIBCO Software - Products, Service oriented architecture - Web 2.0, Business intelligence tools - Proprietary products, TIBCO Software - Initial public offering, Silicon Valley - Notable companies, Vivek Ranadive - Personal life, TIBCO Software - Beginnings, Ben Shneiderman - Work, Solace Systems, TIBCO Software - Post-IPO, Vivek Ranadive - TIBCO, Windowing system - World Wide WebWeb windowing systems, Vivek Ranadive - Teknekron Software Systems, LogLogic - History, IDS Scheer, TIBCO Rendezvous - Details, MSP Intermark - Clients and experience, TIBCO Software - Awards, MSP Intermark - Founders, Vivek Ranadive - Works, Service-oriented architecture - Web 2.0, Vivek Ranadive - TopCom, Streambase Systems, Java Message Service - Provider implementations, Michael Stonebraker - Students, List of widget toolkits - Based on JavaScript, Hadoop - Commercially supported Hadoop-related products, Netezza - Products, TIBCO Software - Acquisitions, R (programming language) - Commercial support for R, List of IT companies in India - Pune, HDFS - Commercial support, Reuters Group - Acquisitions and investments, and much more...

Learn key architectural techniques and strategies to design efficient and elegant Java applications

Implementing SOA

Succeeding with SOA

Emerging Technology Strategies

SOA Source Book

Web Development with TIBCO General Interface

Software services are established as a programming concept, but their impact on the overall architecture of enterprise IT and business operations is not well-understood. This has led to problems in deploying SOA, and some disillusionment collection of reference material for SOA. It is an invaluable resource for enterprise architects working with SOA.The SOA Source Book will help enterprise architects to use SOA effectively. It explains: What SOA is How to evaluate SOA featu

How to use The Open Group Architecture Framework (TOGAF™) for SOA SOA governance This book explains how TOGAF can help to make an Enterprise Architecture. Enterprise Architecture is an approach that can help management to und
The definitive guide to architecting reliable, effective composite applications and services with TIBCO products and technologies * *Pragmatic, proven, comprehensive coverage: concepts, products, technologies, service design, service archite
more *The official guide for TIBCO's new two-day education course covering these topics. *By Dr. Paul C. Brown, TIBCO's Principal Software Architect: the follow-up to his TIBCO Architecture Fundamentals. Today's complex composite applica
architected with exceptional care. TIBCO Principal Software Architect Dr. Paul C. Brown shows how to use TIBCO technologies to architect them for maximum performance, reliability, and value. Brown covers all major aspects of architectur
organization; work structure and organization; and mapping of work onto participants. He first describes essential concepts associated with composite application and services, including service utilization contracts, component lifecycles, nai
he reviews relevant TIBCO products and technologies. This book's full section on service design addresses specification, architecture, data modeling, data structure design, and designing for versioning. Brown identifies proven service archite
extensive discussion of composite applications covers composition styles and architecture; collaboration; orchestration; security; performance; high availability; fault tolerance; and monitoring. Brown concludes by presenting three sample adv
architectures.

This book reports on cutting-edge research carried out within the context of the EU-funded Dicode project, which aims at facilitating and augmenting collaboration and decision making in data-intensive and cognitively complex settings. Whe
prominent high-performance computing paradigms and large data processing technologies to meaningfully search, analyze, and aggregate data from diverse, extremely large and rapidly evolving sources. The Dicode approach and services are
emphasis is placed on deepening insights regarding the exploitation of big data, as well as on collaboration and issues relating to sense-making support. Building on current advances, the solution developed in the Dicode project brings toget
machine and humans. It can be viewed as an innovative "workbench" incorporating and orchestrating a set of interoperable services that reduce the data intensiveness and complexity overload at critical decision points to a manageable leve
productive and effective in their work practices.

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

New Solutions for IS and Business Performance

Integrated Solutions with DB2

Java Message Service

Building AJAX Clients for Enterprise SOA

Great Global Grid

Realizing Business Value Through Total Architecture

Build robust and scalable Java applications by learning how to implement every aspect of software architecture Key FeaturesUnderstand the fundamentals of software architecture and build production-grade applications in JavaMake smart
decisions with comprehensive coverage of various architectural approaches from SOA to microservicesGain an in-depth understanding of deployment considerations with cloud and CI/CD pipelinesBook Description Well-written software arch
core of an efficient and scalable enterprise application. Java, the most widespread technology in current enterprises, provides complete toolkits to support the implementation of a well-designed architecture. This book starts with the funda
architecture and takes you through the basic components of application architecture. You'll cover the different types of software architectural patterns and application integration patterns and learn about their most widespread implement
then explore cloud-native architectures and best practices for enhancing existing applications to better suit a cloud-enabled world. Later, the book highlights some cross-cutting concerns and the importance of monitoring and tracing for pl
of the software, foreseeing predictable maintenance, and troubleshooting. The book concludes with an analysis of the current status of software architectures in Java programming and offers insights into transforming your architecture to
debt. By the end of this software architecture book, you'll have acquired some of the most valuable and in-demand software architect skills to progress in your career. What you will learnUnderstand the importance of requirements engineer
functional versus non-functional requirementsExplore design techniques such as domain-driven design, test-driven development (TDD), and behavior-driven developmentDiscover the mantras of selecting the right architectural patterns for mo
applicationsExplore different integration patternsEnhance existing applications with essential cloud-native patterns and recommended practicesAddress cross-cutting considerations in enterprise applications regardless of architectural choice
typeWho this book is for This book is for Java software engineers who want to become software architects and learn everything a modern software architect needs to know. The book is also for software architects, technical leaders, vice
software engineering, and CTOs looking to extend their knowledge and stay up to date with the latest developments in the field of software architecture.

Enterprise Integration Patterns provides an invaluable catalog of sixty-five patterns, with real-world solutions that demonstrate the formidable of messaging and help you to design effective messaging solutions for your enterprise. The aut
examples covering a variety of different integration technologies, such as JMS, MSMQ, TIBCO ActiveEnterprise, Microsoft BizTalk, SOAP, and XSL. A case study describing a bond trading system illustrates the patterns in practice, and the boc
at emerging standards, as well as insights into what the future of enterprise integration might hold. This book provides a consistent vocabulary and visual notation framework to describe large-scale integration solutions across many techno
explores in detail the advantages and limitations of asynchronous messaging architectures. The authors present practical advice on designing code that connects an application to a messaging system, and provide extensive information to he
when to send a message, how to route it to the proper destination, and how to monitor the health of a messaging system. If you want to know how to manage, monitor, and maintain a messaging system once it is in use, get this book.

Session 2 includes 110 papers selected from 2011 3rd International Asia Conference on Informatics in Control, Automation and Robotics (CAR 2011), held on December 24-25, 2011, Shenzhen, China. As we all know, the ever growing techno
and automation will help build a better human society. This session will provide a unique opportunity for the academic and industrial communities to address new challenges, share solutions, and discuss research directions for the future. Rc
emphasizes intelligence and adaptability to cope with unstructured environments. Automation research emphasizes efficiency, productivity, quality, and reliability, focusing on systems that operate autonomously. The main focus of this sessio
autonomous acquisition of semantic information in intelligent robots and systems, as well as the use of semantic knowledge to guide further acquisition of information.

Would you like to use a consistent visual notation for drawing integration solutions? "Look inside the front cover." Do you want to harness the power of asynchronous systems without getting caught in the pitfalls? "See "Thinking Asynchro
Introduction." Do you want to know which style of application integration is best for your purposes? "See Chapter 2, Integration Styles." Do you want to learn techniques for processing messages concurrently? "See Chapter 10, Competing
Message Dispatcher." Do you want to learn how you can track asynchronous messages as they flow across distributed systems? "See Chapter 11, Message History and Message Store." Do you want to understand how a system designed u
patterns can be implemented using Java Web services, .NET message queuing, and a TIBCO-based publish-subscribe architecture? "See Chapter 9, Interlude: Composed Messaging." Utilizing years of practical experience, seasoned experts Greg
and Bobby Woolf show how asynchronous messaging has proven to be the best strategy for enterprise integration success. However, building and deploying messaging solutions presents a number of problems for developers. " Enterprise In
Patterns " provides an invaluable catalog of sixty-five patterns, with real-world solutions that demonstrate the formidable of messaging and help you to design effective messaging solutions for your enterprise. The authors also include exam
variety of different integration technologies, such as JMS, MSMQ, TIBCO ActiveEnterprise, Microsoft BizTalk, SOAP, and XSL. A case study describing a bond trading system illustrates the patterns in practice, and the book offers a look at en
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the advantages and limitations of asynchronous messaging architectures. The authors present practical advice on designing code that connects an application to a messaging system, and provide extensive information to help you determine
message, how to route it to the proper destination, and how to monitor the health of a messaging system. If you want to know how to manage, monitor, and maintain a messaging system once it is in use, get this book. 0321200683B091

Informatics in Control, Automation and Robotics

Designing, Building, and Deploying Messaging Solutions

A Guide to Selection and Implementation

Architecting Complex-Event Processing Solutions with TIBCO®

Architecting Composite Applications and Services with TIBCO

Total Architecture in Practice

Is the Enterprise Information Portal (EIP) knowledge management's killer app? Leading expert Joseph M. Firestone, the first author to formulate the idea of the Enterprise Knowledge Portal, breaks new ground and looks to the future with a practical, but comprehensive approach to enterprise
portals and their relationship to knowledge management. Providing a clear and novel overview, Firestone tackles a wide range of topics ranging from functional EIP applications, estimating costs and benefits of EIPs, variations in EIP technical architecture, the role of intelligent agents, the
nature of knowledge management, portal product/solution segmentation, portal product case studies, to the future of the EIP space. 'Enterprise Information Portals and Knowledge Management' is the book on portals you've been waiting for. It is the only book that thoroughly considers,
explores, and analyzes: * The EIP orientation, outlook and evolution * A new methodology for estimating EIP benefits and costs * EIP and Enterprise Knowledge Portals (EKP) architecture * The approaching role of software agents in EIPs and EKPs * The current and future contribution of EIP and
EKP solutions to Knowledge Management * The role of XML in portal architecture * A comprehensive, multi-dimensional, and forward-looking segmentation of EIP products accompanied by portal product case studies * Where EIP sector companies are headed and the pathways they will follow
to get there

Information systems have an enormous potential for improving business performance. With this in mind, companies must set out to exploit and optimize this potential without delay in order to improve their efficiency and continue to set themselves apart from the competition. This
comprehensive text provides the information needed to understand and implement these systems at a practical level.

Annotation. SOA Cookbook covers process-oriented SOA. BPEL is the best-known language in this area, and this book presents numerous BPEL examples. It also studies proprietary vendor process languages such as TIBCO's BusinessWorks and BEA's Weblogic Integration. If you are building
SOA processes in the field, chances are you are using one of the languages discussed in SOA Cookbook. The book assumes that the reader is comfortable with XML and web services. Author Michael Havey works with SOA in the field for TIBCO (and previously for IBM, BEA, and Chordiant). SOA
Cookbook is Michael's second book. Essential Business Process Modeling, his first book, was published in 2005.

Architecting BPM Solutions with TIBCO is intended for working architects, designers, and developers seeking a practical guide to understanding the workings of TIBCO's core products and using them to solve common design problems. The book is required reading for anyone seeking status as
a TIBCO Certified Architect in Business Process Management. This book is divided into four parts: Part I provides an introduction to Business Process Management, describes the core TIBCO products used in BPM solutions, and goes into detail on process discovery and analysis. Part II covers
architecture of the solution models; process models, organization models, business object models, forms, and business rules. Part III covers advanced solution architecture; User interface, content management, service integration, exception handling, event collection, and calendars. Part IV
covers non-functional architecture; deployment, scaling and performance, HA, FT and DR, multi-tenancy, and security.

R for Cloud Computing

Revolutionizing Data Integration for Data Warehouses

Hands-On Software Architecture with Java

TIBCO Architecture Fundamentals

RFID in the Supply Chain

Computerworld

Putting Service-Oriented Architecture (SOA) into Practice "This book is a must-have for enterprise architects implementing SOA. Through practical examples, it explains the relationship between business requirements,
business process design, and service architecture. By tying the SOA implementation directly to business value, it reveals the key to ongoing success and funding." —Maja Tibbling, Lead Enterprise Architect, Con-way, Inc.
"While there are other books on architecture and the implementation of ESB, SOA, and related technologies, this new book uniquely captures the knowledge and experience of the real world. It shows how you can transform
requirements and vision into solid, repeatable, and value-added architectures. I heartily recommend it." —Mark Wencek, SVP, Consulting Services & Alliances, Ultimo Software Solutions, Inc. In his first book, Succeeding
with SOA, Paul Brown explained that if enterprise goals are to be met, business processes and information systems must be designed together as parts of a total architecture. In this second book, Implementing SOA , he
guides you through the entire process of designing and developing a successful total architecture at both project and enterprise levels. Drawing on his own extensive experience, he provides best practices for creating
services and leveraging them to create robust and flexible SOA solutions. Coverage includes Evolving the enterprise architecture towards an SOA while continuing to deliver business value on a project-by-project basis
Understanding the fundamentals of SOA and distributed systems, the dominant architectural issues, and the design patterns for addressing them Understanding the distinct roles of project and enterprise architects and how
they must collaborate to create an SOA Understanding the need for a comprehensive total architecture approach that encompasses business processes, people, systems, data, and infrastructure Understanding the strategies and
tradeoffs for implementing robust, secure, high-performance, and high-availability solutions Understanding how to incorporate business process management (BPM) and business process monitoring into the enterprise
architecture Whether you're defining an enterprise architecture or delivering individual SOA projects, this book will give you the practical advice you need to get the job done.

Data Virtualization for Business Intelligence Systems

Business 2.0

eWork and eBusiness in Architecture, Engineering and Construction