

# Tibco Architecture Fundamentals

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Java Message Service - David A Chappell 2000-12-04

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. Designing Enterprise Applications with the J2EE Platform - Inderjeet Singh 2002

Following her widely acclaimed Autobiography of Red ("A spellbinding achievement" --Susan Sontag), a new collection of poetry and prose that displays Anne Carson's signature mixture of opposites--the classic and the modern, cinema and print, narrative and verse. In *Men in the Off Hours*, Carson reinvents figures as diverse as Oedipus, Emily Dickinson, and Audubon. She views the writings of Sappho, St. Augustine, and Catullus through a modern lens. She sets up startling juxtapositions (Lazarus among video paraphernalia; Virginia Woolf and Thucydides discussing war). And in a final prose poem, she meditates on the recent death of her mother. With its quiet, acute spirituality, its fearless wit and sensuality, and its joyful understanding that "the fact of the matter for humans is imperfection," *Men in the Off Hours* shows us "the most exciting poet writing in English today" (Michael Ondaatje) at her best. From the Hardcover edition.

Architecting Composite Applications and Services with TIBCO - Paul C. Brown 2013

Today's complex composite applications and services must be 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 architecture: participant structure and 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, naming/namespaces, and versioning. Next, 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 architecture patterns for several key issues. An extensive discussion of composite applications covers composition styles and architecture; collaboration; orche.

TIBCO Architecture Fundamentals - Paul C. Brown 2011-05-09

"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.

Reliable Distributed Systems - Kenneth Birman 2006-07-02

Explains fault tolerance in clear terms, with concrete examples drawn from real-world settings Highly practical focus aimed at building "mission-critical" networked applications that remain secure *Enterprise Application Architecture with .NET* Ganesan Senthilvel 2017-04-25

Architect and design highly scalable, robust, clean and highly performant applications in .NET Core About This Book Incorporate architectural soft-skills such as DevOps and Agile methodologies to enhance program-level objectives Gain knowledge of architectural approaches on the likes of SOA architecture and microservices to provide traceability and rationale for architectural decisions Explore a variety of practical use cases and code examples to implement the tools and techniques described in the book Who This Book Is For This book is for experienced .NET developers who are aspiring to become architects of enterprise-grade applications, as well as software architects who would like to leverage .NET to create effective blueprints of applications. What You Will Learn Grasp the important aspects and best practices of application lifecycle management Leverage the popular ALM tools, application insights, and their usage to monitor performance, testability, and optimization tools in an enterprise Explore various authentication models such as social media-based authentication, 2FA and OpenID Connect, learn authorization techniques Explore Azure with various solution approaches for Microservices and Serverless architecture along with Docker containers Gain knowledge about the recent market trends and practices and how they can be achieved with .NET Core and Microsoft tools and technologies In Detail

If you want to design and develop enterprise applications using .NET Core as the development framework and learn about industry-wide best practices and guidelines, then this book is for you. The book starts with a brief introduction to enterprise architecture, which will help you to understand what enterprise architecture is and what the key components are. It will then teach you about the types of patterns and the principles of software development, and explain the various aspects of distributed computing to keep your applications effective and scalable. These chapters act as a catalyst to start the practical implementation, and design and develop applications using different architectural approaches, such as layered architecture, service oriented architecture, microservices and cloud-specific solutions. Gradually, you will learn about the different approaches and models of the Security framework and explore various authentication models and authorization techniques, such as social media-based authentication and safe storage using app secrets. By the end of the book, you will get to know the concepts and usage of the emerging fields, such as DevOps, BigData, architectural practices, and Artificial Intelligence. Style and approach Filled with examples and use cases, this guide takes a no-nonsense approach to show you the best tools and techniques required to become a successful software architect.

**Enterprise Integration Patterns** - Gregor Hohpe 2012-03-09

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 authors also include 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 book offers a look 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 technologies. It also 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 help you determine 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.

**Introduction to Information Systems** - R. Kelly Rainer 2008-01-09

WHATS IN IT FOR ME? Information technology lives all around us-in how we communicate, how we do business, how we shop, and how we learn. Smart phones, iPods, PDAs, and wireless devices dominate our lives, and yet it's all too easy for students to take information technology for granted. Rainer and Turban's Introduction to Information Systems, 2nd edition helps make Information Technology come alive in the classroom. This text takes students where IT lives-in today's businesses and in our daily lives while helping students understand how valuable information technology is to their future careers. The new edition provides concise and accessible coverage of core IT topics while connecting these topics to Accounting, Finance, Marketing, Management, Human resources, and Operations, so students can discover how critical IT is to each functional area and every business. Also available with this edition is WileyPLUS - a powerful online tool that provides instructors and students with an integrated suite of teaching and learning resources in one easy-to-use website. The WileyPLUS course for Introduction to Information Systems, 2nd edition includes animated tutorials in Microsoft Office 2007, with iPod content and podcasts of chapter summaries provided by author Kelly Rainer.

**Essential Software Architecture** - Ian Gorton 2011-04-27

Job titles like "Technical Architect" and "Chief Architect" nowadays abound in software industry, yet many people suspect that "architecture" is one of the most overused and least understood terms in professional software development. Gorton's book tries to resolve this dilemma. It concisely describes the essential elements of knowledge and key skills required to be a software architect. The explanations encompass the essentials of architecture thinking, practices, and supporting technologies. They range from a general understanding of structure and quality attributes through technical issues like middleware components and service-oriented architectures to recent technologies like model-driven architecture, software product lines, aspect-oriented design, and the Semantic Web, which will presumably influence future software systems. This second edition contains new material covering enterprise architecture, agile development, enterprise service bus technologies,

RESTful Web services, and a case study on how to use the MeDICi integration framework. All approaches are illustrated by an ongoing real-world example. So if you work as an architect or senior designer (or want to someday), or if you are a student in software engineering, here is a valuable and yet approachable knowledge source for you.

*DataPower Architectural Design Patterns* 2008-01-01

**It's All Analytics!** - Scott Burk 2020-07-02

It's All Analytics! The Foundations of AI, Big Data and Data Science Landscape for Professionals in Healthcare, Business, and Government (978-0-367-35968-3, 325690) Professionals are challenged each day by a changing landscape of technology and terminology. In recent history, especially in the last 25 years, there has been an explosion of terms and methods that automate and improve decision-making and operations. One term, "analytics," is an overarching description of a compilation of methodologies. But AI (artificial intelligence), statistics, decision science, and optimization, which have been around for decades, have resurged. Also, things like business intelligence, online analytical processing (OLAP) and many, many more have been born or reborn. How is someone to make sense of all this methodology and terminology? This book, the first in a series of three, provides a look at the foundations of artificial intelligence and analytics and why readers need an unbiased understanding of the subject. The authors include the basics such as algorithms, mental concepts, models, and paradigms in addition to the benefits of machine learning. The book also includes a chapter on data and the various forms of data. The authors wrap up this book with a look at the next frontiers such as applications and designing your environment for success, which segue into the topics of the next two books in the series.

*E-business 2.0* Ravi Kalakota 2001

This title seeks to explain how to choose and implement the right e-business infrastructure and how to deliver the strategies you have created. It uses case studies to illustrate the successes and failures of e-business initiatives.

**Succeeding with SOA** - Paul C. Brown 2007-04-24

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. *Cloud Computing for Enterprise Architects* Zaigham Mahmood 2011-12-01

This important text provides a single point of reference for state-of-the-art cloud computing design and implementation techniques. The book examines cloud computing from the perspective of enterprise architecture, asking the question; how do we realize new business potential with our existing enterprises? Topics and features: with a Foreword by Thomas Erl; contains contributions from an international selection of preeminent experts; presents the state-of-the-art in enterprise architecture approaches with respect to cloud computing models, frameworks, technologies, and applications; discusses potential research directions, and technologies to facilitate the realization of emerging business models through enterprise architecture approaches; provides relevant theoretical frameworks, and the latest empirical research findings.

**The Analytics Lifecycle Toolkit** - Gregory S. Nelson 2018-03-07

An evidence-based organizational framework for exceptional analytics team results The Analytics Lifecycle Toolkit provides managers with a

practical manual for integrating data management and analytic technologies into their organization. Author Gregory Nelson has encountered hundreds of unique perspectives on analytics optimization from across industries; over the years, successful strategies have proven to share certain practices, skillsets, expertise, and structural traits. In this book, he details the concepts, people and processes that contribute to exemplary results, and shares an organizational framework for analytics team functions and roles. By merging analytic culture with data and technology strategies, this framework creates understanding for analytics leaders and a toolbox for practitioners. Focused on team effectiveness and the design thinking surrounding product creation, the framework is illustrated by real-world case studies to show how effective analytics team leadership works on the ground. Tools and templates include best practices for process improvement, workforce enablement, and leadership support, while guidance includes both conceptual discussion of the analytics life cycle and detailed process descriptions. Readers will be equipped to: Master fundamental concepts and practices of the analytics life cycle Understand the knowledge domains and best practices for each stage Delve into the details of analytical team processes and process optimization Utilize a robust toolkit designed to support analytic team effectiveness The analytics life cycle includes a diverse set of considerations involving the people, processes, culture, data, and technology, and managers needing stellar analytics performance must understand their unique role in the process of winnowing the big picture down to meaningful action. The Analytics Lifecycle Toolkit provides expert perspective and much-needed insight to managers, while providing practitioners with a new set of tools for optimizing results.

**Event-Based Programming** - Ted Faison 2006-12-06

This book shows how to develop software based on parts that interact primarily through an event mechanism. The book demonstrates the use of events in all sorts of situations to solve recurring development problems without incurring coupling. A novel form of software diagram is introduced, called Signal Wiring Diagram. These diagrams are similar to the circuit diagrams used by hardware designers. A series of case studies concludes the book, bringing all the next concepts introduced together. Source code is provided in both C# and VB.NET

**Implementing SOA** - Paul C. Brown 2008-04-09

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.

**Applied SOA** - Michael Rosen 2012-07-02

Endorsed by all major vendors (Microsoft, Oracle, IBM, and SAP), SOA

has quickly become the industry standard for building next-generation software; this practical guide shows readers how to achieve the many benefits of SOA Begins with a look at the architectural principles needed to create successful applications and then goes on to examine the process for designing services and SOA implementations Each stage of the design process has an accompanying chapter that walks readers through the details and provides helpful tips, techniques, and examples The author team of SOA practitioners also provides two unique, comprehensive, end-to-end case studies illustrating the architectural and design techniques presented in the book

**Fundamentals of Software Architecture** Mark Richards 2020-01-28

Salary surveys worldwide regularly place software architect in the top 10 best jobs, yet no real guide exists to help developers become architects. Until now. This book provides the first comprehensive overview of software architecture's many aspects. Aspiring and existing architects alike will examine architectural characteristics, architectural patterns, component determination, diagramming and presenting architecture, evolutionary architecture, and many other topics. Mark Richards and Neal Ford—hands-on practitioners who have taught software architecture classes professionally for years—focus on architecture principles that apply across all technology stacks. You'll explore software architecture in a modern light, taking into account all the innovations of the past decade. This book examines: Architecture patterns: The technical basis for many architectural decisions Components: Identification, coupling, cohesion, partitioning, and granularity Soft skills: Effective team management, meetings, negotiation, presentations, and more Modernity: Engineering practices and operational approaches that have changed radically in the past few years Architecture as an engineering discipline: Repeatable results, metrics, and concrete valuations that add rigor to software architecture

**Fundamentals of Business Process Management** - Marlon Dumas 2018-03-23

This textbook covers the entire Business Process Management (BPM) lifecycle, from process identification to process monitoring, covering along the way process modelling, analysis, redesign and automation. Concepts, methods and tools from business management, computer science and industrial engineering are blended into one comprehensive and inter-disciplinary approach. The presentation is illustrated using the BPMN industry standard defined by the Object Management Group and widely endorsed by practitioners and vendors worldwide. In addition to explaining the relevant conceptual background, the book provides dozens of examples, more than 230 exercises - many with solutions - and numerous suggestions for further reading. This second edition includes extended and completely revised chapters on process identification, process discovery, qualitative process analysis, process redesign, process automation and process monitoring. A new chapter on BPM as an enterprise capability has been added, which expands the scope of the book to encompass topics such as the strategic alignment and governance of BPM initiatives. The textbook is the result of many years of combined teaching experience of the authors, both at the undergraduate and graduate levels as well as in the context of professional training. Students and professionals from both business management and computer science will benefit from the step-by-step style of the textbook and its focus on fundamental concepts and proven methods. Lecturers will appreciate the class-tested format and the additional teaching material available on the accompanying website.

**Spring Microservices** - Rajesh RV 2016-06-28

Build scalable microservices with Spring, Docker, and Mesos About This Book Learn how to efficiently build and implement microservices in Spring, and how to use Docker and Mesos to push the boundaries of what you thought possible Examine a number of real-world use cases and hands-on code examples. Distribute your microservices in a completely new way Who This Book Is For If you are a Spring developers and want to build cloud-ready, internet-scale applications to meet modern business demands, then this book is for you Developers will understand how to build simple Restful services and organically grow them to truly enterprise grade microservices ecosystems. What You Will Learn Get to know the microservices development lifecycle process See how to implement microservices governance Familiarize yourself with the microservices architecture and its benefits Use Spring Boot to develop microservices Find out how to avoid common pitfalls when developing microservices Be introduced to end-to-end microservices written in Spring Framework and Spring Boot In Detail The Spring Framework is an application framework and inversion of the control container for the Java platform. The framework's core features can be used by any Java

application, but there are extensions to build web applications on top of the Java EE platform. This book will help you implement the microservice architecture in Spring Framework, Spring Boot, and Spring Cloud. Written to the latest specifications of Spring, you'll be able to build modern, Internet-scale Java applications in no time. We would start off with the guidelines to implement responsive microservices at scale. We will then deep dive into Spring Boot, Spring Cloud, Docker, Mesos, and Marathon. Next you will understand how Spring Boot is used to deploy autonomous services, server-less by removing the need to have a heavy-weight application server. Later you will learn how to go further by deploying your microservices to Docker and manage it with Mesos. By the end of the book, you'll will gain more clarity on how to implement microservices using Spring Framework and use them in Internet-scale deployments through real-world examples. Style and approach The book follows a step by step approach on how to develop microservices using Spring Framework, Spring Boot, and a set of Spring Cloud components that will help you scale your applications.

*Design Patterns* Erich Gamma 1995

Software -- Software Engineering.

*Enterprise Cloud Computing* - Gautam Shroff 2010-10-14

Cloud computing promises to revolutionize IT and business by making computing available as a utility over the internet. This book is intended primarily for practising software architects who need to assess the impact of such a transformation. It explains the evolution of the internet into a cloud computing platform, describes emerging development paradigms and technologies, and discusses how these will change the way enterprise applications should be architected for cloud deployment. Gautam Shroff provides a technical description of cloud computing technologies, covering cloud infrastructure and platform services, programming paradigms such as MapReduce, as well as 'do-it-yourself' hosted development tools. He also describes emerging technologies critical to cloud computing. The book also covers the fundamentals of enterprise computing, including a technical introduction to enterprise architecture, so it will interest programmers aspiring to become software architects and serve as a reference for a graduate-level course in software architecture or software engineering.

**Architecting Complex-Event Processing Solutions with TIBCO®** -

Paul C. Brown 2013-09-20

"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.

*Mule in Action* - John D'Emic 2014-02-19

Summary Mule in Action, Second Edition is a totally-revised guide covering Mule 3 fundamentals and best practices. It starts with a quick ESB overview and then dives into rich examples covering core concepts like sending, receiving, routing, and transforming data. About the Technology An enterprise service bus is a way to integrate enterprise applications using a bus-like infrastructure. Mule is the leading open source Java ESB. It borrows from the Hohpe/Woolf patterns, is lightweight, can publish REST and SOAP services, integrates well with Spring, is customizable, scales well, and is cloud-ready. About the Book Mule in Action, Second Edition is a totally revised guide covering Mule 3 fundamentals and best practices. It starts with a quick ESB overview and then dives into rich examples covering core concepts like sending, receiving, routing, and transforming data. You'll get a close look at Mule's standard components and how to roll out custom ones. You'll also pick up techniques for testing, performance tuning, and BPM orchestration, and explore cloud API integration for SaaS applications. Written for developers, architects, and IT managers, this book requires familiarity with Java but no previous exposure to Mule or other ESBs. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. What's Inside Full coverage of Mule 3 Integration with cloud services Common transports, routers, and transformers Security, routing, orchestration, and transactions About the Authors David Dossot is a software architect and has created numerous modules and transports for Mule. John D'Emic is a principal solutions architect and Victor Romero a solutions architect, both at MuleSoft, Inc. Table of Contents PART 1 CORE MULE Discovering Mule Processing messages with Mule Working with connectors Transforming data with Mule Routing data with Mule Working with components and patterns PART 2 RUNNING MULE Integration architecture with Mule Deploying Mule Exception handling and transaction management with Mule Securing Mule Tuning Mule PART 3 TRAVELING FURTHER WITH MULE Developing with Mule Writing custom cloud connectors and processors Augmenting Mule with orthogonal technologies

*Enterprise API Management* - Luis Weir 2019-07-23

A strategy and implementation guide for building, deploying, and managing APIs Key FeaturesComprehensive, end-to-end guide to business-driven enterprise APIsDistills years of experience with API and microservice strategiesProvides detailed guidance on implementing API-led architectures in any businessBook Description APIs are the cornerstone of modern, agile enterprise systems. They enable access to enterprise services from a wide variety of devices, act as a platform for innovation, and open completely new revenue streams. Enterprise API Management shows how to define the right architecture, implement the right patterns, and define the right organization model for business-driven APIs. Drawing on his experience of developing API and microservice strategies for some of the world's largest companies, Luis Weir explains how APIs deliver value across an enterprise. The book explores the architectural decisions, implementation patterns, and management practices for successful enterprise APIs, as well as providing clear, actionable advice on choosing and executing the right API strategy in your enterprise. With a relentless focus on creating business value, Luis Weir reveals an effective method for planning, building, and running business products and services with APIs. What you will learnCreate API strategies to deliver business valueMonetize APIs, promoting them through public marketplaces and directoriesDevelop API-led architectures, applying best practice architecture patternsChoose between REST, GraphQL, and gRPC-style API architecturesManage APIs and microservices through the complete life cycleDeploy APIs and business products, as well as Target Operating ModelsLead product-based organizations to embrace DevOps and focus on delivering business capabilitiesWho this book is for Architects, developers, and technology executives who want to deliver successful API strategies that bring business value.

*TIBCO Architecture Fundamentals* Paul C. Brown 2011

The official, authoritative guide to TIBCO architecture: pragmatic, comprehensive information for maximizing the value of TIBCO products. • •Written by TIBCO architect Dr. Paul C. Brown, a world-renowned innovator in enterprise system design. •Presents 63 best-practice reference architectures that solve a broad spectrum of common design problems. •Authorized, supported, and promoted by TIBCO. This is the definitive tutorial and reference for modern TIBCO architecture: crucial information for gaining maximum value from TIBCO products in any environment. Authored by TIBCO architect Dr. Paul C. Brown, it focuses on the pragmatic challenges of building real-world systems, and presents

proven design patterns drawn from actual Fortune® 500 and mid-tier enterprise designs. Brown offers unprecedented insight into the inner workings of TIBCO products: knowledge that can be applied directly in building systems that perform better and address business needs more effectively. He covers all major design decisions associated with all three key elements of TIBCO architecture: • The structure and organization of the participants. • The structure and organization of the work. • The mapping of work onto participants. Brown represents all 63 of this book's designs and reference architectures with industry-standard SCA and UML notation. The first in a new series of official TIBCO Press books, TIBCO Architecture Fundamentals will be indispensable for every architect, designer, and developer creating or deploying TIBCO-based solutions.

**Architecting Complex-event Processing Solutions with TIBCO** - Paul C. Brown 2013

"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. *Architecting Composite Applications and Services with TIBCO*. Brown 2012-07-20

"Paul Brown has done a favor for the TIBCO community and anyone wanting to get into this product set. Architecting TIBCO solutions without knowing the TIBCO architecture fundamentals and having insight to the topics discussed in this book is risky to any organization. I fully recommend this book to anyone involved in designing solutions using the TIBCO ActiveMatrix products." —Nikky Sooriakumar, TIBCO Architect, PruHealth "An effective primer for building composite services using TIBCO, this book provides a holistic approach to strategy integrated with implementation details. I find it tremendously useful in moving recursively from business solutions to design patterns to architecture. Tangible examples are provided that build to composite services. And advanced topics are explored that add another valuable implementation dimension. I recommend this book to software architects who need to quickly build an effective business- services-oriented environment." —Abby H. Brown, Ph.D., Enterprise Architect, Intel Corp. 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. TIBCO's product suite comprises components with functionality ranging from messaging through services, service orchestration, business process management, master data management, and complex event processing.

In composite applications and services, multiple components collaborate to provide the required functionality. There are many possible architectures for these distributed solutions: Some will serve the enterprise well, while others will lead to dead-end projects. Architecting Composite Applications and Services with TIBCO® shows how to create successful architectures with TIBCO products for both overall solutions and individual services. This guide builds on the basic design patterns and product information presented in the first title in the series, TIBCO® Architecture Fundamentals (Addison-Wesley, 2011). After reading this title, you will be able to Create architectures for solutions, service specifications, and service implementations Understand the intended TIBCO product roles in composite applications and services Define manageable approaches to service versioning and naming Conduct and interpret performance benchmarks Identify and select appropriate design patterns for a variety of tasks Architecting Composite Applications and Services with TIBCO® is intended primarily for project architects defining overall solutions and specifying the supporting components and services. TIBCO developers, enterprise architects, and technical managers will also find material of interest. No specific prior knowledge of architecture is assumed.

**Mobile Computing Principles** - Reza B'Far 2004-11-01

Written to address technical concerns that mobile developers face regardless of the platform (J2ME, WAP, Windows CE, etc.), this 2005 book explores the differences between mobile and stationary applications and the architectural and software development concepts needed to build a mobile application. Using UML as a tool, Reza B'far guides the developer through the development process, showing how to document the design and implementation of the application. He focuses on general concepts, while using platforms as examples or as possible tools. After introducing UML, XML and derivative tools necessary for developing mobile software applications, B'far shows how to build user interfaces for mobile applications. He covers location sensitivity, wireless connectivity, mobile agents, data synchronization, security, and push-based technologies, and finally homes in on the practical issues of mobile application development including the development cycle for mobile applications, testing mobile applications, architectural concerns, and a case study.

**Strategic Enterprise Architecture Management** - Frederik Ahlemann 2012-01-05

The Enterprise Architecture Management (EAM) discipline deals with the alignment of business and information systems architectures. While EAM has long been regarded as a discipline for IT managers, this book takes a different stance: It explains how top executives can use EAM to leverage their strategic planning and controlling processes, as well as how it can contribute to their sustainable competitive advantage. Based on the analysis of best practices from eight leading European companies from various industries, the book presents the crucial elements of successful EAM. It outlines what executives need to do in terms of governance, processes, methodologies, and culture in order to bring their management to the next level. Beyond this, the book points out how EAM could develop in the next decade, thus allowing today's managers to prepare for the future architecture management.

**Java SOA Cookbook** - Eben Hewitt 2009-03-17

Focuses on service-oriented architecture: web services, orchestrations, policies, and more - for developers.

**Mastering Enterprise JavaBeans** - Ed Roman 2004-12-22

Includes more than 30 percent revised material and five new chapters, covering the new 2.1 features such as EJB Timer Service and JMS as well as the latest open source Java solutions The book was developed as part of TheServerSide.com online EJB community, ensuring a built-in audience Demonstrates how to build an EJB system, program with EJB, adopt best practices, and harness advanced EJB concepts and techniques, including transactions, persistence, clustering, integration, and performance optimization Offers practical guidance on when not to use EJB and how to use simpler, less costly open source technologies in place of or in conjunction with EJB

**Smarter Business: Dynamic Information with IBM InfoSphere Data Replication CDG** Chuck Ballard 2012-03-12

To make better informed business decisions, better serve clients, and increase operational efficiencies, you must be aware of changes to key data as they occur. In addition, you must enable the immediate delivery of this information to the people and processes that need to act upon it. This ability to sense and respond to data changes is fundamental to dynamic warehousing, master data management, and many other key initiatives. A major challenge in providing this type of environment is

determining how to tie all the independent systems together and process the immense data flow requirements. IBM® InfoSphere® Change Data Capture (InfoSphere CDC) can respond to that challenge, providing programming-free data integration, and eliminating redundant data transfer, to minimize the impact on production systems. In this IBM Redbooks® publication, we show you examples of how InfoSphere CDC can be used to implement integrated systems, to keep those systems updated immediately as changes occur, and to use your existing infrastructure and scale up as your workload grows. InfoSphere CDC can also enhance your investment in other software, such as IBM DataStage® and IBM QualityStage®, IBM InfoSphere Warehouse, and IBM InfoSphere Master Data Management Server, enabling real-time and event-driven processes. Enable the integration of your critical data and make it immediately available as your business needs it.

*Fundamentals of Stream Processing* - Henrique C. M. Andrade  
2014-02-13

This book teaches fundamentals of stream processing, covering application design, distributed systems infrastructure, and continuous analytic algorithms.

*Operating Systems and Middleware* - Max Hailperin 2007

By using this innovative text, students will obtain an understanding of how contemporary operating systems and middleware work, and why they work that way.

**SOA with .NET and Windows Azure** - Thomas Erl 2010-05-27

The Authoritative Guide to Building Service-Oriented Solutions with Microsoft .NET Technologies and the Windows Azure Cloud Computing Platform In SOA with .NET and Windows Azure, top Microsoft technology experts team up with Thomas Erl to explore service-oriented computing with Microsoft's latest .NET service technologies and Windows Azure innovations. The authors provide comprehensive documentation of on-premise and cloud-based modern service technology advancements within the Microsoft platform and further show how these technologies have increased the potential for applying and realizing service-orientation practices and goals. Specifically, the book delves into Microsoft enterprise technologies, such as: Windows Communication Foundation (WCF) Windows Azure Windows Workflow Foundation (WF) Windows Azure AppFabric BizTalk Server Windows Presentation Foundation (WPF) ...as well as industry service mediums, including WS-\* and REST, and many related service industry standards and technologies. The book steps through common SOA design patterns and service-orientation principles, along with numerous code-level examples that further detail various technology architectures and implementations. Topic Areas This book covers the following primary topics: Microsoft Service Technologies Microsoft Enterprise Technologies On-Premise & Cloud-Based Service Topics Industry Service Technologies & Mediums Service-Oriented Technology Architectural Models Service-Orientation Design Paradigm Service-Orientation Design Principles SOA Design Patterns About the Web Sites This book series is further supported by a series of resources sites, including: [www.soabooks.com](http://www.soabooks.com) [www.soaspecs.com](http://www.soaspecs.com) [www.soamag.com](http://www.soamag.com) [www.serviceorientation.com](http://www.serviceorientation.com) [www.soapatterns.org](http://www.soapatterns.org) [www.soaprinciples.com](http://www.soaprinciples.com) [www.whatissoa.com](http://www.whatissoa.com)

**Predictive Marketing** - Omer Artun 2015-08-06

Make personalized marketing a reality with this practical guide to predictive analytics Predictive Marketing is a predictive analytics primer for organizations large and small, offering practical tips and actionable strategies for implementing more personalized marketing immediately. The marketing paradigm is changing, and this book provides a blueprint for navigating the transition from creative- to data-driven marketing, from one-size-fits-all to one-on-one, and from marketing campaigns to real-time customer experiences. You'll learn how to use machine-learning technologies to improve customer acquisition and customer growth, and how to identify and re-engage at-risk or lapsed customers by implementing an easy, automated approach to predictive analytics. Much more than just theory and testament to the power of personalized marketing, this book focuses on action, helping you understand and actually begin using this revolutionary approach to the customer experience. Predictive analytics can finally make personalized marketing a reality. For the first time, predictive marketing is accessible to all marketers, not just those at large corporations — in fact, many smaller organizations are leapfrogging their larger counterparts with innovative programs. This book shows you how to bring predictive analytics to your organization, with actionable guidance that get you started today. Implement predictive marketing at any size organization Deliver a more personalized marketing experience Automate predictive analytics with machine learning technology Base marketing decisions on concrete data rather than unproven ideas Marketers have long been talking about delivering personalized experiences across channels. All marketers want to deliver happiness, but most still employ a one-size-fits-all approach. Predictive Marketing provides the information and insight you need to lift your organization out of the campaign rut and into the rarefied atmosphere of a truly personalized customer experience.

*Data Management at Scale* - Piethein Strengholt 2020-07-29

As data management and integration continue to evolve rapidly, storing all your data in one place, such as a data warehouse, is no longer scalable. In the very near future, data will need to be distributed and available for several technological solutions. With this practical book, you'll learn how to migrate your enterprise from a complex and tightly coupled data landscape to a more flexible architecture ready for the modern world of data consumption. Executives, data architects, analytics teams, and compliance and governance staff will learn how to build a modern scalable data landscape using the Scaled Architecture, which you can introduce incrementally without a large upfront investment. Author Piethein Strengholt provides blueprints, principles, observations, best practices, and patterns to get you up to speed. Examine data management trends, including technological developments, regulatory requirements, and privacy concerns Go deep into the Scaled Architecture and learn how the pieces fit together Explore data governance and data security, master data management, self-service data marketplaces, and the importance of metadata

**Business Process Management** - John Jeston 2014-01-21

This textbook provides organisational leadership with an understanding of business process management and its benefits to an organisation. It provides a practical framework, complete with a set of tools and techniques, to successfully implement business process management projects.