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Information technology has woven itself into the fabric of every organization. As organizations grow and develop specialized needs, specialized software applications emerge to address the needs. Often the business processes take shape around the capabilities of the software applications and the technology infrastructure, until the two are inseparable from one another. When an organization decides to incorporate new processes or upgrade its information architecture, the new system may lack compatibility with the old system. The old, incompatible software is typically referred to as a "legacy application". In an effort to integrate the old applications with the new, organizations are typically faced with expensive, proprietary Enterprise Application Integration solutions. Fitting Out and Supply Support Assistance Center (FOSSAC) is an organization facing a legacy application integration challenge with the implementation of the Navy-Marine Corps Intranet. This thesis examines the applicability of traditional Enterprise Application Integration (EAI) methodologies for FOSSAC as way to preserve access to its legacy applications. As an alternative integration solution, this thesis explores the potential of the emerging Web Services architecture. The Web Services architecture employs standard Internet protocols to facilitate application integration and information sharing across a variety of computing--platforms.

BizTalk Services offers great possibilities for bringing enterprises together in the cloud, and this book is the perfect introduction to it all. Packed with real-world scenarios, you will soon be designing your own tailor-made integration solutions. In Detail BizTalk Services is a service based on Windows Azure that was introduced by Microsoft in the summer of 2013. It provides integration capabilities in the cloud to connect enterprises together in scalable and flexible ways that go beyond what traditional on-premises integration products (such as BizTalk Server) can manage. BizTalk Services provides the ability to construct integration solutions using familiar tools (Visual Studio and Microsoft .Net) and also provides a bridge metaphor to connect applications and technologies. Whether you are a neophyte or an expert in integration solutions, Getting Started with BizTalk Services provides you with a comprehensive look at cloud integration, covering the many features and capabilities of BizTalk Services. More importantly, the purpose of each feature is explained together with how to use them effectively. The book starts by introducing the capabilities of BizTalk Services and then expands on them, providing insights on when to apply them yourself in your own integration solutions. The book then goes on to cover both the Enterprise Application Integration (EAI) and Business-to-Business Integration (B2B) features of BizTalk Services, explaining how to build cloud-hosted integration solutions that connect to your own datacenter as well as to your customers'. Each available option is discussed in turn, from FTP-based data transfer to Service Bus queues. The book ends with tips and tricks on tracking and troubleshooting. Getting Started with BizTalk Services will give you all the knowledge and hands-on experience you need to use Microsoft's integration service on cloud effectively through the many examples and real-world scenarios provided. What You Will Learn Use the EAI and B2B features of BizTalk Services Connect with Line-Of-Business systems in your datacenter on-premises Create bridges and configure them to process and route messages Design transforms and employ custom code Address and diagnose problems Migrate from BizTalk Server to BizTalk Services Downloading the example code for this book. You can download the example code files for all Packt books you have purchased from your account at http://www.PacktPub.com. If you purchased this book e ...

Learn how to create sophisticated and reliable Logic Apps with improved UX Key FeaturesBecome an Azure Master and create data flows within a matter of minutesPerform transfers using Logic Apps with prompt resultsCreate powerful Logic Apps by enhancing your systems to improve user experienceBook Description Logic Apps are a visual flowchart-like representation of common programming actions, and are a flexible way to create logic without writing a single line of code. Enterprise Integration with Azure Logic Apps is a comprehensive introduction for anyone new to Logic Apps which will boost your learning skills and allow you to create rich, complex, structured, and reusable logic with instant results. You'll begin by discovering how to navigate the Azure portal and understand how your objects can be zoned to a specific environment by using resource groups. Complete with hands-on tutorials, projects, and self-assessment questions, this easy-to-follow guide will teach you the benefits and foundations of Logic App logic design. As you advance, you'll find out how to manage your Azure environment in relation to Logic Apps and how to create elegant and reliable Logic Apps. With useful and practical explanations of how to get the most out of Logic App actions and triggers, you'll be able to ensure that your Logic Apps work efficiently and provide seamless integration for real-world scenarios without having to write code. By the end of this Logic Apps book, you'll be able to create complex and powerful Logic Apps within minutes, integrating large amounts of data on demand, enhancing your systems, and linking applications to improve user experience. What you will learnUnderstand how to use blades, overview pages, and subscription pagesDiscover how to create a Microsoft account to manage your tenantUse a Visual Studio subscription with Azure to manage your Logic AppsFind out how to manage the cloud by analyzing runs, executions, and costsCreate resource groups to zone your enterprise environmentsSupport a development life cycle from sandbox through to productionWho this book is for If you are an aspiring infrastructure technician who already uses Azure in place of on-premises solutions and is now looking to link systems together, then this book is for you. This book is also for developers interested in systems integration where legacy systems may not have a direct data link and the cloud is the intermediary step. Power users with existing IT skills and experience with Power BI and Power Automate will also find this book useful.

Explores the technology that enables application integration between businesses engaging in e-commerce, covering data-oriented, application interface-oriented,

method-oriented, portal-oriented, and process integration-oriented technologies.

An expert guide to solving real business problems using components This groundbreaking book gets developers up to speed on Enterprise JavaBeans, CORBA components, and other cutting edge technologies that are making it easier and cheaper than ever for companies to integrate all of their applications into unified systems to support corporate decision--making. Fred Cummins presents an overview of the integration architecture and then dives right into the details, including communications messaging techniques for integrating application components, the "publish and subscribe" mechanism for linking components and monitoring business activities, using "adapters" to integrate applications, integrating Web services, work-flow management, and he also supplies proven code solutions for an array of problems associated with integrating packaged and custom applications across the enterprise. Companion Web site features source code and updates on the EAI architecture and underlying technologies.
Build messaging applications using the power of Spring Boot; use Spring application events over the Web; use WebSocket, SockJS, and STOMP messaging with Spring MVC; and use Spring JMS, Redis Pub/Sub and Spring AMQP for reliable messaging solutions. This book covers all the Spring Messaging APIs using Spring Boot. Written by a Pivotal engineer, Spring Boot Messaging is an authoritative guide to the many messaging APIs and how to use these for creating enterprise and integration solutions. You will learn and integrate these messaging APIs with more complex enterprise and cloud applications: for example, you will see how to use Spring Cloud Stream for creating message-driven and cloud native microservices. In addition, you'll discover the new Spring Integration DSL and use it with Spring Cloud Stream to build integration solutions using every enterprise integration pattern. Finally, you'll see Spring Reactor and Spring Cloud to take your application to the next level. "/p> After reading this book, you will come away with a case study application walkthrough and will be able to use it as a template for building your own Spring messaging applications or messaging features within your enterprise or cloud application. What You'll Learn Use the main Spring messaging APIs with Spring Framework 5 Build messaging applications over the Web Use WebSocket, SockJS, and STOMP messaging Integrate Spring JMS and Spring AMQP into your applications Work with Spring Cloud Stream and microservices Who This Book Is For Enterprise Java developers who have at least some previous experience with the Spring Framework and/or the Spring platform.
Learn to utilize today's hottest EAI technologies to ensureinteroperability across your organization What exactly is enterprise application integration (EAI)? Whatmakes this $300 million market so hot that it's expected to grow to$6.5 billion in the next two years? How do you apply it in the realworld? Whether you're an IT professional or systems architect,business manager or software developer, if you're looking into EAIas a solution for unifying applications and systems across theenterprise, then the answers are in this book.You'll find acomplete and unbiased survey of the different technologies,architectures, and approaches available for EAI implementations,including pros and cons, clear explanations of all concepts, andfirst-rate guidance on how to choose the best EAI strategy for yourcompany. The authors draw on their pioneering work with earlyimplementations to show you how to: Define your specific integration problem in a useful form thatenables a real solution Develop your own EAI architecture and ensure interoperabilityof legacy, stovepipe, COTS, client-server and modern technologyapplications Choose the best among messaging architecture, objectarchitecture, and transaction architecture Work with the best implementation technologies, includingMicrosoft's COM+, the OMG's CORBA, and Sun's EJB Utilize the proven Secure Application Integration Methodology(SAIM) Wiley Tech Briefs Focused on the needs of the corporate IT and business manager, theTech Briefs series provides in-depth information on a new oremerging technology, solutions, and vendor offerings available inthe marketplace. With their accessible approach, these books willhelp you get quickly up-to-speed on a topic so that you caneffectively compete, grow, and better serve your customers.
Managing Data in Motion describes techniques that have been developed for significantly reducing the complexity of managing system interfaces and enabling scalable architectures. Author April Reeve brings over two decades of experience to present a vendor-neutral approach to moving data between computing environments and systems. Readers will learn the techniques, technologies, and best practices for managing the passage of data between computer systems and integrating disparate data together in an enterprise environment. The average enterprise's computing environment is comprised of hundreds to thousands computer systems that have been built, purchased, and acquired over time. The data from these various systems needs to be integrated for reporting and analysis, shared for business transaction processing, and converted from one format to another when old systems are replaced and new systems are acquired. The management of the "data in motion" in organizations is rapidly becoming one of the biggest concerns for business and IT management. Data warehousing and conversion, real-time data integration, and cloud and "big data" applications are just a few of the challenges facing organizations and businesses today. Managing Data in Motion tackles these and other topics in a style easily understood by business and IT managers as well as programmers and architects. Presents a vendor-neutral overview of the different technologies and techniques for moving data between computer systems including the emerging solutions for unstructured as well as structured data types Explains, in non-technical terms, the architecture and components required to perform data integration Describes how to reduce the complexity of managing system interfaces and enable a scalable data architecture that can handle the dimensions of "Big Data"

Open source is a free resource, available to anyone's contribution, and open to collaboration between technical professionals resulting in increased reliability, more customization operations, and faster solutions than ever before. This book helps readers understand just how to integrate open source resources as an enterprise solution. (Midwest).
"This book provides methods that allow for access to corporate and customer data independent of where it resides"--Provided by publisher.
Like many other incipient technologies, Web services are still surrounded by a substantial level of noise. This noise results from the always dangerous combination of wishful thinking on the part of research and industry and of a lack of clear understanding of how Web services came to be. On the one hand, multiple contradictory interpretations are created by the many attempts to realign existing technology and strategies with Web services. On the other hand, the emphasis on what could be done with Web services in the future often makes us lose track of what can be really done with Web services today and in the short term. These factors make it extremely difficult to get a coherent picture of what Web services are, what they contribute, and where they will be applied. Alonso and his co-authors deliberately take a step back. Based on their academic and industrial experience with middleware

and enterprise application integration systems, they describe the fundamental concepts behind the notion of Web services and present them as the natural evolution of conventional middleware, necessary to meet the challenges of the Web and of B2B application integration. Rather than providing a reference guide or a "how to write your first Web service" kind of book, they discuss the main objectives of Web services, the challenges that must be faced to achieve them, and the opportunities that this novel technology provides. Established, as well as recently proposed, standards and techniques (e.g., WSDL, UDDI, SOAP, WS-Coordination, WS-Transactions, and BPEL), are then examined in the context of this discussion in order to emphasize their scope, benefits, and shortcomings. Thus, the book is ideally suited both for professionals considering the development of application integration solutions and for research and students interesting in understanding and contributing to the evolution of enterprise application technologies.

Unleash the power of serverless integration with Azure About This Book Build and support highly available and scalable API Apps by learning powerful Azure-based cloud integration Deploy and deliver applications that integrate seamlessly in the cloud and quickly adapt as per your integration needs Deploy hybrid applications that work and integrate on the cloud (using Logic Apps and BizTalk Server) Who This Book Is For This book is for Microsoft Enterprise developers, DevOps, and IT professionals who would like to use Azure App Service and Microsoft Cloud Integration technologies to create cloud-based web and mobile apps. What You Will Learn Explore new models of robust cloud integration in Microsoft Azure Create your own connector and learn how to publish and manage it Build reliable, scalable, and secure business workflows using Azure Logic Apps Simplify SaaS connectivity with Azure using Logic Apps Connect your on-premises system to Azure securely Get to know more about Logic Apps and how to connect to on-premises “line-of-business” applications using Microsoft BizTalk Server In Detail Microsoft is focusing heavily on Enterprise connectivity so that developers can build scalable web and mobile apps and services in the cloud. In short, Enterprise connectivity from anywhere and to any device. These integration services are being offered through powerful Azure-based services. This book will teach you how to design and implement cloud integration using Microsoft Azure. It starts by showing you how to build, deploy, and secure the API app. Next, it introduces you to Logic Apps and helps you quickly start building your integration applications. We'll then go through the different connectors available for Logic Apps to build your automated business process workflow. Further on, you will see how to create a complex workflow in Logic Apps using Azure Function. You will then add a SaaS application to your existing cloud applications and create Queues and Topics in Service Bus on Azure using Azure Portal. Towards the end, we'll explore event hubs and IoT hubs, and you'll get to know more about how to tool and monitor the business workflow in Logic Apps. Using this book, you will be able to support your apps that connect to data anywhere—be it in the cloud or on-premises. Style and approach This practical hands-on tutorial shows you the full capability of App Service and other Azure-based integration services to build scalable and highly available web and mobile apps. It helps you successfully build and support your applications in the cloud or on-premises successfully. We'll debunk the popular myth that switching to cloud is risky—it's not!

This book constitutes the refereed proceedings of the 9th International Conference on Perspectives in Business Informatics Research (BIR) in Rostock, Germany, in September 2010. The 14 full and 4 short papers accepted for BIR were selected from 53 submissions. They are organized in topical sessions on knowledge and information management; ontologies; models and workflows; business information systems; and databases and mobile computing .

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.

Foreword by Ray Harishankar, IBM Fellow "There are many books on the market on the topic of SOA and SOA's business and technology value. This book focuses on one of the key technical values of SOA and does an excellent job of describing SOA-based application integration by clarifying the relationship and patterns of SOA with other integration technologies in a distributed computing environment." Sandra Carter, IBM Vice President for SOA, BPM, and WebSphere Marketing "Services Oriented Architectures present many challenges today in the integration of existing systems and new systems, along with many times, old legacy mainframe applications. This book successfully addresses many of the complexities we see in the integration of SOA and mainframe legacy applications, presenting options and approaches to integrate the applications with the rest of the enterprise. The author takes a clearly defined pattern-based approach discussing the advantages, tools and methods. Readers will benefit from the insights in this book whether they play the architect role or a developer role on a SOA project." Sue Miller-Sylvia, IBM Fellow and Application Development Service Area Leader

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. The SOA Source Book adds to this a 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 features in business terms How to model SOA 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 understand this growing complexity.

BizTalk 2006 adds incremental value to BizTalk 2004 by improving administration, deployment, and other key areas of the product. Built upon .NET, this server product is Microsoft’s strategy to capture market share within the enterprise integration space, and is the fastest growing integration product. What this means is a doubling of previous market share for Microsoft, and the dramatic growth of BizTalk 2006 based integration architects, developers and administrators. Offering more than 170 problem-solving recipes for BizTalk developers and administrators, the book draws on the expertise of many of the most prominent authorities in the field.

Extend your existing technology investments--and increase your organization's agility--by integrating disparate applications and data into solutions that work together to meet ever-evolving business needs. This guide defines application integration and describes the requirements, capabilities, and best practices to help you achieve success. It is written for technical decision makers and architects looking for practical recommendations on how to orchestrate an application integration project that puts heterogeneous and legacy applications to work--helping to maximize ROI and organizational responsiveness. PATTERNS & PRACTICES guides are reviewed and approved by Microsoft engineering teams, consultants, partners, and

customers--delivering accurate, real-world information that's been technically validated and tested.

Application integration assembles methods and tools for organizing exchanges between applications, and intra- and inter-enterprise business processes. A strategic tool for enterprises, it introduces genuine reactivity into information systems facing business changes, and as a result, provides a significant edge in optimizing costs. This book analyzes various aspects of application integration, providing a guide to the alphabet soup behind EAI, A2A, B2B, BAM, BPM, ESB and SOA. It addresses the problems of choosing between the application integration solutions and deploying them successfully. It supplies guidelines for avoiding common errors, exploring the differences between received wisdom and the facts on the ground. The overview of IT urbanization will help introduce English-speaking audiences to a powerful approach to information system flexibility developed in France. A key chapter approaches the analysis and interoperation of service levels in integration projects, while the discussion on deployment methodologies and ROI calculation anchors the theory in the real world. Application Integration: EAI, B2B, BPM and SOA relies on concrete examples and genuine experiences to demonstrate what works – and what doesn't – in this challenging, topical and important IT domain.

"The book's use of real-world case study vignettes really does go to the heart of the subject matter. This stuff is real, it has real applicability to real problems, and, as with most things in life, it shows how it all comes down to real money in the final analysis. This book shows you what your peers are doing to drive costs out of integration projects and to build new applications without re-inventing the entire wheel—just a few new spokes and off you go. This is a good book. Read it." —Peter Rhys Jenkins, Complex Systems Architect, Candle Corporation "When you get two long-term, acknowledged experts on integration and interoperability together to lay out the current state of the IT universe you expect an immediate return on investment—and this book delivers. It's common knowledge that 90% of total software lifecycle cost is in maintenance and integration, and that needs to drive IT decision--making. With comprehensive coverage of the integration technology landscape, and clear case studies presented at every turn, this book belongs on every IT manager's, every system architect's, and every software developer's bookshelf." —Richard Mark Soley, chairman and CEO, Object Management Group "Today's myriad of integration technologies and alternatives can be daunting. This book presents a framework and process for the evaluation, design, and selection of the appropriate integration technologies to meet your strategic business needs. You will find the templates a particularly useful mechanism to jump-start documentation and drive your decision-making process." —Ron Zahavi, CIO, Global Business Transformation, Unisys Global Transformation Team; author of Enterprise Application Integration with CORBA "It is refreshing to read a book that presents a good business approach to the integration challenge facing most business leaders today, while at the same time educating them about the major components of the required technologies and management practices changes required. The narrative, examples, and templates establish a common reference point between the business and the technology organizations. A must-read for senior business leaders challenged with the complexities of business integration, as well as Senior IT Leaders challenged with shrinking budgets and lower tolerances for failures." —Chuck Papageorgiou, managing partner, Ideasphere "Integration has, and will continue to be, one of the success indicators of any enterprise project. Failing to understand the nuances of integration is a critical mistake managers cannot afford to make." —Marcia Robinson, author of Services Blueprint: Roadmap for Execution "A much-needed book; it ties together the business and technology aspects of information system implementation, emphasizing best practices for really getting things done. I believe that both the technical and business communities will benefit from the in-depth material provided in this book." —Dr. Barry Horowitz, professor of systems and information engineering, University of Virginia (former CEO, Mitre Corporation) Integration of applications, information, and business process has become today's #1 IT investment priority. Most enterprise integration books simply explain the technology. This one shows exactly how to apply it. It's a step-by-step roadmap for your entire project—from the earliest exploratory stages through analysis, design, architecture, and implementation. Renowned enterprise integration experts Beth Gold-Bernstein and William Ruh present best practices and case studies that bring their methodology to life. They address every stage from the decision-maker's and implementer's point of view—showing how to align business requirements to specific solutions, systematically reduce risk, and maximize ROI throughout the entire lifecycle. Coverage includes: Supporting strategies, tactics, and business planning: enterprise integration from the business perspective Defining realistic project success indicators and metrics Establishing integration architectures: supporting near-term needs while building reusable infrastructure services for the long-term Adopting metadata architecture and standards Implementing four essential implementation patterns: application, information, composite, and process integration Understanding service integration and implementing service-oriented architectures Providing organizational structure and governance to support effective integration The authors provide detailed plans and specification templates for application integration projects—both in the book and on the CD-ROM. These projects include identifying business drivers and requirements; establishing strategy; and integrating services, information, process, and applications. Enterprise Integration was written for every member of the integration team: business and IT leaders, strategists, architects, project managers, and technical staff. Regardless of your role, you'll discover where you fit, what to do, and how to drive maximum business value from your next integration project.

Three super-hot topics come together in this first complete guide to Enterprise Application Integration with XML and Java. The book teaches readers to identify data exchange requirements and meet them with Java and XML. It contains easy--to-read, well-documented code throughout. The CD-ROM contains extensive source code from the book, plus a library of leading-edge software and trialware.

Both application developers and software product vendors will be the audience for this guide to the J2EE connector architecture and its use in building resource adapters and enterprise information systems. Readers will find information on the history of enterprise application integration (EAI), different approaches to integrating all the parts of an information infrastructure, an overview of J2EE connector architecture, various interfaces and their use, transaction concepts and applications, and applications to other EISs and legacy systems. Annotation copyrighted by Book News Inc., Portland, OR.

The organization pursuing digital transformation must embrace new ways to use and deploy integration technologies, so they can move quickly in a manner appropriate to the goals of multicloud, decentralization, and microservices. The integration layer must transform to allow organizations to move boldly in building new customer experiences, rather than forcing models for architecture and development

that pull away from maximizing the organization's productivity. Many organizations have started embracing agile application techniques, such as microservice architecture, and are now seeing the benefits of that shift. This approach complements and accelerates an enterprise's API strategy. Businesses should also seek to use this approach to modernize their existing integration and messaging infrastructure to achieve more effective ways to manage and operate their integration services in their private or public cloud. This IBM® Redbooks® publication explores the merits of what we refer to as agile integration; a container-based, decentralized, and microservice-aligned approach for integration solutions that meets the demands of agility, scalability, and resilience required by digital transformation. It also discusses how the IBM Cloud Pak for Integration marks a significant leap forward in integration technology by embracing both a cloud-native approach and container technology to achieve the goals of agile integration. The target audiences for this book are cloud integration architects, IT specialists, and application developers.

Systems integration--the enterprise-wide integration of computer applications--offers an enormous opportunity for U.S. firms to capitalize on their strengths in such areas as complex software, networking, and management. In this book, industry leaders, university researchers, and government policymakers discuss what systems integration is, its importance and prospects for growth, why it is expected to define the characteristics of computerization for decades to come, and why the United States is perceived to have a strong competitive advantage.

Microsoft BizTalk Server 2006 R2 offers an efficient, integrated way to deploy EDI solutions. With this practical guide, you can set up and deliver a BizTalk 2006--driven EDI solution without getting caught up in the complexity of non-EDI items in BizTalk. This book offers insights into the brand-new Biztalk 2006 R2--based EDI functionality, including the far greater flexibility in handling interchange. It gives advice covering specific implementations, provides an in-depth understanding of EDI, and presents a detailed, step-by-step approach to building and deploying projects.

Whether you work for a small start-up or for a large enterprise, this book can help you understand Microsoft Cloud Integration technologies to Integrate application and business processes. By using this book, readers will be able to learn various Architecture design principles while connecting Enterprise application with Azure components.

Dealing with the concepts behind a vendor's products, this a guide for IT managers on how to ensure the IT infrastructure matches the need of the enterprise, and which procedures should be followed to ensure this happens.

How do you approach answering queries when your data is stored in multiple databases that were designed independently by different people? This is first comprehensive book on data integration and is written by three of the most respected experts in the field. This book provides an extensive introduction to the theory and concepts underlying today's data integration techniques, with detailed, instruction for their application using concrete examples throughout to explain the concepts. Data integration is the problem of answering queries that span multiple data sources (e.g., databases, web pages). Data integration problems surface in multiple contexts, including enterprise information integration, query processing on the Web, coordination between government agencies and collaboration between scientists. In some cases, data integration is the key bottleneck to making progress in a field. The authors provide a working knowledge of data integration concepts and techniques, giving you the tools you need to develop a complete and concise package of algorithms and applications. Offers a range of data integration solutions enabling you to focus on what is most relevant to the problem at hand Enables you to build your own algorithms and implement your own data integration applications

Competition has forced companies to move towards cost effective web-based technology solutions like EAI to provide better integration with employees, customers and business partners. This book looks at the concept, the solutions it offers, and the advant

Adopting Web Services will affect many processes within any organization. To throw light on the most important issues, we have commissioned Experts in the Industry to share their insights. The resultant papers cover a broad spectrum from architecture to business strategies without diverting into deep technological fashions. Each study in the collection will answer specific business challenges thrown up by Web Service architectures. Before changing, commissioning, or evaluating a Web Service initiative, all IT Managers, System Architects, Lead Developers, and Business Visionaries should study and reference this book.

Middleware is a layer of software situated between the operating system and the applications, permitting them to exchange information among themselves. It constitutes the infrastructure of an information system onto which pieces of software are placed and connected to each other. This book explains the basics of middleware and looks at the importance of middleware in the design of complex information systems, including the close overlap between middleware and the Internet.

••Defines Web services and integration and the relationship between EAI and Web services•Outlines the types of Web services integration from standards, implementation to enabling technologies•Features Web services integration scenarios and case studies

"This book...gives EAI architects and developers the opportunity to learn directly from the authority on distributed computing, EAI, and CORBA." -David S. Linthicum Chief Technology Officer, SAGA Software, Inc. In this book a CORBA pioneer provides proven, cost-effective techniques for integrating enterprise applications (including legacy applications) into modern, multiplatform systems. He also offers valuable advice and guidance on how to build new CORBA-based applications using the latest features of CORBA 3 . With the help of numerous case studies and examples, he provides detailed solutions for specific integration problems along with step-by-step guidance on: * Using CORBA as the infrastructure for EAI * Architecture principles for integrating the Web and back-end systems * CORBA Component Model for component-based development * Relationship of CORBA components to DCOM, JavaBeans, and Enterprise JavaBeans * Using the essential CORBA services * Object wrapping techniques for integrating legacy applications into multi-platform systems * Building secure, multiplatform Web applications On the companion Web site at www.wiley.com/compbooks/zahavi/ you'll find: * Articles on related topics * Continually maintained ORB and integration server, vendor, and product comparisons * A dynamic discussion group on architectural best practices

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.

Middleware is a layer of software that lets business applications inter-operate and eases the problem of constructing complex applications that can include market places, CRM and Internet access. The world of middleware has recently been galvanised by the arrival of the Internet and then by Java, making it part of the e-commerce revolution. This text provides a practical introduction to the different forms of middleware (RPC, message queues, hub and spoke, CORBA and Java) and how they can be combined to produce complex architectures that are suited to business needs. -Contributes to the diffusion and understanding of the importance of the role of middleware in the design of complex information systems. -Relevant text for courses on Information Technology applied to Business Management. -The first edition of this title was a bestseller.

In the realm of application integration we see one hype after the other. The message broker was succeeded by the service bus and service oriented architecture, today it is microservices and API's. The advocates of these technologies promise a great deal, but in reality most implementations fail to deliver. Are these technologies flawed? No, it is not the technology that creates a flawed implementation, it is the people using the technology who design flawed implementations. Vendors of integration tooling and programmers have published an extraordinary amount of information on the technical aspects of application integration. Unfortunately, there is remarkably little guidance on how to design successful application integration solutions. This is largely caused by the outdated view that application integration is nothing more than sharing data between applications. The premise of this eBook is that application integration is about how to support your business processes across a network of well-integrated heterogeneous applications. By exploring integration architecture and its relation with enterprise architecture this eBook provides guidance on how to design successful application integration solutions regardless of underlying technology.

A unifying foundation to design and implement process-awareinformation systems This publication takes on the formidable task of establishing aunifying foundation and set of common underlying principles toeffectively model, design, and implement process-aware informationsystems. Authored by leading authorities and pioneers in the field,Process-Aware Information Systems helps readers gain a thoroughunderstanding of major concepts, languages, and techniques forbuilding process-aware applications, including: * UML and EPCs: two of the most widely used notations for businessprocess modeling * Concrete techniques for process design and analysis * Process execution standards: WfMC and BPEL * Representative commercial tools: ARIS, TIBCO Staffware, andFLOWer Each chapter begins with a description of the problem domain andthen progressively unveils relevant concepts and techniques.Examples and illustrations are used extensively to clarify andsimplify complex material. Each chapter ends with a set ofexercises, ranging from simple questions to thought-provokingassignments. Sample solutions for many of the exercises areavailable on the companion Web site. Armed with a new and deeper understanding, readers are betterpositioned to make their own contributions to the field andevaluate various approaches to a particular task or problem. Thispublication is recommended as a textbook for graduate and advancedundergraduate students in computer science and information systems,as well as for professionals involved in workflow and businessprocess management, groupware and teamwork, enterprise applicationintegration, and business-to-business integration. A Solution's Manual is available online. An Instructor Support FTPsite is also available.