

## J2ee Web Services By Richard Monson Haefel

Enterprise JavaBeans (EJB) are a container-based component architecture that allow you to easily create secure, scalable and transactional enterprise applications. Developed as session beans, entity beans, or message-driven beans, EJBs are the critical business objects in any J2EE application. Professional EJB shows how to develop and deploy EJB applications using both the 1.1 and the new 2.0 specification. The addition of container-provided services, such as container-managed persistence, and security and transaction management, are covered in detail. As well as implementation details, the book also provides a number of strategies and patterns that can be applied when designing your EJB applications. Subsequently, it also suggests steps for taking existing EJBs and improving their performance. Finally, the book recognizes that one of the most difficult areas of EJB development is the deployment process. Thus it demonstrates how to deploy your EJB applications to some of the leading EJB containers including, BEA WebLogic, IBM WebSphere and Sybase EAServer. Who is this book for? Professional EJB is for professional Java developers who wish to build secure, scalable and transactional components. No knowledge of EJB is required, but a good knowledge of the Java programming language, and some familiarity with its server side aspects would be an advantage. What does this book cover? The fundamentals of EJB development, including session beans, entity beans (BMP and CMP), and message-driven beans; EJB services such as resource management, transactions, and security; designing EJB applications using patterns, strategies, and UML; improving EJB design through testing and performance; integrating EJBs with J2EE, COM, and CORBA; deployment instructions for leading application servers.

The practical implications of technical debt for the entire software lifecycle; with examples and case studies. Technical debt in software is incurred when developers take shortcuts and make ill-advised technical decisions in the initial phases of a project, only to be confronted with the need for costly and labor-intensive workarounds later. This book offers advice on how to avoid technical debt, how to locate its sources, and how to remove it. It focuses on the practical implications of technical debt for the entire software life cycle, with examples and case studies from companies that range from Boeing to Twitter. Technical debt is normal; it is part of most iterative development processes. But if debt is ignored, over time it may become unmanageably complex, requiring developers to spend all of their effort fixing bugs, with no time to add new features--and after all, new features are what customers really value. The authors explain how to monitor technical debt, how to measure it, and how and when to pay it down. Broadening the conventional definition of technical debt, they cover requirements debt, implementation debt, testing debt, architecture debt, documentation debt, deployment debt, and social debt. They intersperse technical discussions with "Voice of the Practitioner" sidebars that detail real-world experiences with a variety of technical debt issues.

The official guide to Resin, authorized by the company that invented the product, Caucho Technology Offers a comprehensive tutorial and reference on how to use all flavors of Resin, including the basic Resin server, Resin-CMP, and Resin-Enterprise Demonstrates how to build enterprise Java applications, optimize performance, and use other tools with Resin Illustrates how to configure Resin for various commercial and open source hardware platforms, maintain high availability of the server, and use all of the advanced features Companion Web site includes updates on the technology and links to useful resources and tools

Collective Wisdom from the Experts

Professional Java Tools for Extreme Programming

Design Patterns

Mastering Resin

From Grid to Healthgrid

The Industrial Information Technology Handbook focuses on existing and emerging industrial applications of IT, and on evolving trends that are driven by the needs of companies and by industry-led consortia and organizations. Emphasizing fast growing areas that have major impacts on industrial automation and enterprise integration, the Handbook covers topics such as industrial communication technology, sensors, and embedded systems. The book is organized into two parts. Part 1 presents material covering new and quickly evolving aspects of IT. Part 2 introduces cutting-edge areas of industrial IT. The Handbook presents material in the form of tutorials, surveys, and technology overviews, combining fundamentals and advanced issues, with articles grouped into sections for a cohesive and comprehensive presentation. The text contains 112 contributed reports by industry experts from government, companies at the forefront of development, and some of the most renowned academic and research institutions worldwide. Several of the reports on recent developments, actual deployments, and trends cover subject matter presented to the public for the first time.

If you're up on the latest Java technologies, then you know that Enterprise JavaBeans (EJB) 3.0 is the hottest news in Java this year. In fact, EJB 3.0 is being hailed as the new standard of server-side business logic programming. And O'Reilly's award-winning book on EJB has been refreshed just in time to capitalize on the technology's latest rise in popularity. This fifth edition, written by Bill Burke and Richard Monson-Haefel, has been updated to capture the very latest need-to-know Java technologies in the same award-winning fashion that drove the success of the previous four strong-selling editions. Bill Burke, Chief Architect at JBoss, Inc., represents the company on the EJB 3.0 and Java EE 5 specification committees. Richard Monson-Haefel is one of the world's leading experts on Enterprise Java. Enterprise JavaBeans 3.0, 5th Edition is organized into two parts: the technical manuscript followed by the JBoss workbook. The technical manuscript explains what EJB is, how it works, and when to use it. The JBoss workbook provides step-by-step instructions for installing, configuring, and running the examples from the manuscript on the JBoss 4.0 Application Server. Although EJB makes application development much simpler, it's still a complex and ambitious technology that requires a great deal of time to study and master. But now, thanks to Enterprise JavaBeans 3.0, 5th Edition, you can overcome the complexities of EJBs and learn from hundreds of practical examples that are largeenough to test key concepts but small enough to be taken apart and explained in the detail that you need. Now you can harness the complexity of EJB with just a single resource by your side.

Mastering J2EE Web Services (WS-1) Web Services API

Mastering BEA WebLogic Server

The Industrial Information Technology Handbook

JBoss at Work

Beginning ASP.NET 1.0 with Visual Basic.NET

Proceedings of Healthgrid 2005

Consisting of a number of well-known open source products, JBoss is more a family of interrelated services than a single monolithic application. But, as with any tool that's as feature-rich as JBoss, there are number of pitfalls and complexities, too. Most developers struggle with the same issues when deploying J2EE applications on JBoss: they have trouble getting the many J2EE and JBoss deployment descriptors to work together; they have difficulty finding out how to get started; their projects don't have a packaging and deployment strategy that grows with the application; or, they find the Class Loaders confusing and don't know how to use them, which can cause problems. JBoss at Work: A Practical Guide helps developers overcome these challenges. As you work through the book, you'll build a project using extensive code examples. You'll delve into all the major facets of J2EE application deployment on JBoss, including JSPs, Servlets, EJBs, JMS, JNDI, web services, JavaMail, JDBC, and Hibernate. With the help of this book, you'll: Implement a full J2EE application and deploy it on JBoss Discover how to use the latest features of JBoss 4 and J2EE 1.4, including J2EE-compliant web services Master J2EE application deployment on JBoss with EARs, WARs, and EJB JARs Understand the core J2EE deployment descriptors and how they integrate with JBoss-specific descriptors Base your security strategy on JAAS Written for Java developers who want to use JBoss on their projects, the book covers the gamut of deploying J2EE technologies on JBoss, providing a brief survey of each subject aimed at the working professional with limited time. If you're one of the legions of developers who have decided to give JBoss a try, then JBoss at Work: A Practical Guide is your next logical purchase. It'll show you in plain language how to use the fastest growing open source tool in the industry today. If you've worked with JBoss before, this book will get you up to speed on JBoss 4, JBoss WS (web services), and Hibernate 3.

This book constitutes the thoroughly refereed post-proceedings of the International Workshop on Web Services, E-Business, and the Semantic Web, WES 2002, held in Toronto, Canada in May 2002 in conjunction with CaiSE 2002. The 18 revised full papers presented together with two keynote papers were carefully selected and improved during two rounds of reviewing and revision. The papers are organized in topical sections on web services, e-business, and e-services and the semantic web.

J2EE Web ServicesAddison-Wesley Professional

J2EE Web Services

Managing Oracle Fusion Applications

JBoss at Work: A Practical Guide

Web Services, E-Business, and the Semantic Web

A Guide to Developing Your Own Java Servlet Container

***This text introduces students to the concepts of building Web-distributed applications and helps develop the necessary skills through numerous examples, projects, case studies and hands-on examples.***

***Professional Java Tools for Extreme Programming is a practical, code-intensive guide to the tools that Enterprise Java developers need when using Extreme Programming (XP) methods. It covers the key tools used to automate the most complex parts of the XP process: application integration, testing, and deployment.***

***Software -- Software Engineering.***

***97 Things Every Programmer Should Know***

***J2EE Platform Web Services***

***JAVA Developer's Journal***

***The British National Bibliography***

**Annotation & bull; & bull;**Covers J2EE, XML, XSD and JAXP (the Java XML API) Web Services, SOAP, UDDI, WSDL, Web Services Security and Interoperability & bull;Brings Java developers up to speed on developing Web Services applications using J2EE technologies and APIs & bull;Written by Richard Monson-Heafel & ndash; author with Loyal following! & bull;This is the first book in a series of a books by Richard Monson-Heafel.

The SCJA certification is for entry-level Java programmers interested in pursuing a career in application development or software project management

What is this book about? ASP.NET 1.0 is the final release of Microsoft's Active Server Pages (ASP). It is a powerful server-based technology designed to create dynamic, interactive, HTML pages for web sites and corporate intranets. ASP.NET is a core element of Microsoft's exciting .NET vision, building on the strengths of the .NET Framework to provide many new features not seen in previous versions of ASP. This book, entirely revised and updated for the final release, will provide you with a step-by-step introduction to ASP.NET using VB.NET, with plenty of worked examples to help you to gain a deep understanding of what ASP.NET is all about, and how you can harness it to build powerful web applications. What does this book cover? In this book, you will learn how to Create basic ASP.NET pages with VB .NET Understand the concepts of Object Oriented Programming Work with data and XML Debug and handling errors in your code Use ASP.NET Server Controls Create user controls and components Explore the world of Web services Optimize performance Secure your application Who is this book for? This book is aimed at relatively inexperienced web builders who are looking to enrich their sites with dynamically-generated content, and want to learn how to start building web applications using ASP.NET. Developers who have a little experience with previous versions of ASP (and are looking to move over to ASP.NET), may also find this book helpful in getting a simple grasp on what ASP.NET is, what it does, and how it can be used. Experience of basic HTML is required, but previous experience of ASP or VBScript is not essential. We'll be teaching the basics of VB .NET in this book, so prior experience of the language is not required.

Ant, XDoclet, JUnit, Cactus, and Maven

Java Message Service

Best Practices for Building and Deploying J2EE Applications

How Tomcat Works

SCJA Sun Certified Java Associate Study Guide (Exam CX-310-019)

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

Master Oracle Fusion Applications Administer a fully integrated application management framework across your enterprise using the detailed information contained in this Oracle Press guide. Managing Oracle Fusion Applications first explains key principles and then logically groups utilities into practical, ready-to-use toolboxes. Learn how to build lifecycle models, deliver dynamic business intelligence, optimize performance, mitigate risk, and integrate the latest Web 2.0 and social networking features. Compliance, security, and testing techniques are also covered in this comprehensive resource. Understand the components and architecture of Oracle Fusion Applications Plan, develop, and implement an effective application management plan Resolve reliability issues with Oracle Enterprise Manager Configure and deploy applications from the Oracle WebLogic Server Administration Console Adjust run-time parameters using Java Management Extensions and MBeans Generate and distribute reports using Oracle Business Intelligence 11g Establish solid user authentication, access control, and data protection policies Work with Oracle Fusion Governance, Risk, and Compliance Intelligence

Web Services is no longer the next new idea, but has very much become part of the technology landscape. The Web Services development model involves creating independent application components and making them available for use across the Internet. Before advancing to high-level Web Services implementation, it is essential to understand the basic concept of Web Services. This book examines what Web Services are and how they can work with Java by introducing specifications, APIs, tools and examining industry trends.

PRO JSK SITE D,

Software Tools for the Professional Programmer

Dr. Dobb's Journal

PRO EJB,

SOA Using Java Web Services

Architects of buildings and architects of software have more in common than most people think. Both professions require attention to detail, and both practitioners will see their work collapse around them if they make too many mistakes. It's impossible to imagine a world in which buildings get built without blueprints, but it's still common for software applications to be designed and built without blueprints, or in this case, design patterns. A software design pattern can be identified as "a recurring solution to a recurring problem." Using design patterns for software development makes sense in the same way that architectural design patterns make sense--if it works well in one place, why not use it in another? But developers have had enough of books that simply catalog design patterns without extending into new areas, and books that are so theoretical that you can't actually do anything better after reading them than you could before you started. Crawford and Kaplan's J2EE Design Patterns approaches the subject in a unique, highly practical and pragmatic way. Rather than simply present another catalog of design patterns, the authors broaden the scope by discussing ways to choose design patterns when building an enterprise application from scratch, looking closely at the real world tradeoffs that Java developers must weigh when architecting their applications. Then they go on to show how to apply the patterns when writing realworld software. They also extend design patterns into areas not covered in other books, presenting original patterns for data modeling, transaction / process modeling, and interoperability. J2EE Design Patterns offers extensive coverage of the five problem areas enterprise developers face: Maintenance (Extensibility) Performance (System Scalability) Data Modeling (Business Object Modeling) Transactions (process Modeling) Messaging (Interoperability) And with its careful balance between theory and practice, J2EE Design Patterns will give developers new to the Java enterprise development arena a solid understanding of how to approach a wide variety of architectural and procedural problems, and will give experienced J2EE pros an opportunity to extend and improve on their existing experience.

Expert Solutions and State-of-the-Art Code Examples SOA Using Java™ Web Services is a hands-on guide to implementing Web services and Service Oriented Architecture (SOA) with today's Java EE 5 and Java SE 6 platforms. Author Mark Hansen presents in explicit detail the information that enterprise developers and architects need to succeed, from best-practice design techniques to state-of-the-art code samples. Hansen covers creating, deploying, and invoking Web services that can be composed into loosely coupled SOA applications. He begins by reviewing the "big picture," including the challenges of Java-based SOA development and the limitations of traditional approaches. Next, he systematically introduces the latest Java Web Services (JWS) APIs and walks through creating Web services that integrate into a comprehensive SOA solution. Finally, he shows how application frameworks based on JWS can streamline the entire SOA development process and introduces one such framework: SOA-J. The book Introduces practical techniques for managing the complexity of Web services and SOA, including best-practice design examples Offers hard-won insights into building effective SOA applications with Java Web Services Illuminates recent major JWS improvements—including two full chapters on JAX-WS 2.0 Thoroughly explains SOA integration using WSDL, SOAP, Java/XML mapping, and JAXB 2.0 data binding Walks step by step through packaging and deploying Web services components on Java EE 5 with JSR-181 (WS-Metadata 2.0) and JSR-109 Includes specific code solutions for many development issues, from publishing REST endpoints to consuming SOAP services with WSDL Presents a complete case study using the JWS APIs, together with an Ajax front end, to build a SOA application integrating Amazon, Yahoo Shopping, and eBay Contains hundreds of code samples—all tested with the GlassFish Java EE 5 reference implementation—that are downloadable from the companion Web site, http://soabook.com. Foreword Preface Acknowledgments About the Author Chapter 1: Service-Oriented Architecture with Java Web Services Chapter 2: An Overview of Java Web Services Chapter 3: Basic SOA Using REST Chapter 4: The Role of WSDL, SOAP, and Java/XML Mapping in SOA Chapter 5: The JAXB 2.0 Data Binding Chapter 6: JAX-WS—Client-Side Development Chapter 7: JAX-WS 2.0—Server-Side Development Chapter 8: Packaging and Deployment of SOA Components (JSR-181 and JSR-109) Chapter 9: SOAShopper: Integrating eBay, Amazon, and Yahoo! Shopping Chapter 10: Ajax and Java Web Services Chapter 11: WSDL-Centric Java Web Services with SOA-J Appendix A: Java, XML, and Web Services Standards Used in This Book Appendix B: Software Configuration Guide Appendix C: Namespace Prefixes Glossary References Index

This publication provides a forum for projects in the medical, biological and biomedical domains as well as for grid projects that seek to integrate these. The overall objective is to reinforce and promote the awareness of the deployment of grid technology in health. The emphasis is on results of current grid projects in health care. This will show in the outcome of field tests and will identify deployment strategies for prototype applications in health care. In addition, outstanding problem areas and technological challenges are identified and new solutions to these issues are proposed. From Grid to Healthgrid is divided in four themes: - Knowledge and Data Management - Deployments of Grids in Health - Current Projects and - Ethical, Legal, Social and Security Issues. The papers show that healthgrid has matured beyond its original projects and is now tackling some difficult

problems that seemed intractable up till two years ago.

Mastering Enterprise JavaBeans

Technical Debt in Practice

A Practical Guide

Java Web Services Programming

#### Ejb Design Patterns

Build robust, scalable, end-to-end business solutions with J2EE(TM) Web Services. This is the definitive practitioner's guide to building enterprise-class J2EE Web Services that integrate with any B2B application and interoperate with any legacy system. Sun senior architect Ray Lai introduces 25 vendor-independent architectural patterns and best practices for designing Web Services that deliver outstanding performance, scalability, and reliability. Lai takes you to the frontiers of emerging Web Services technologies, showing how to make the most of today's leading-edge tools, from Java Web Services Developer Pack to Apache Axis. Coverage includes: Web Services: making the business case, and overcoming the technical and business challenges Real-life examples and scenarios, and a start-to-finish application case study Expert guidance on reducing risk and avoiding implementation pitfalls Building complete business solutions with rich messaging and workflow collaboration Mainframe interoperability and B2B integration within and beyond the enterprise Framework and methodology to develop your Web Services patterns and best practices Up-to-the-minute coverage of Web Services security New applications: service consolidation, wireless, and more An extensive library of links to Web resources, reference material, and vendors Whether you're an architect, designer, project leader, or developer, these are the best practices, patterns, and techniques you need to succeed with Web services in your enterprise environment. Enterprises seeking to leverage Web Services to revolutionize the ways they deliver services to customers, partners, and employees will find the answers they need in this book. "Ray Lai's J2EETM Platform Web Services is a comprehensive look at J2EE platform architecture and should be a must read for any serious Web Services developer." --Larry Tabb, Senior Strategic Advisor, Tower Group "This is a book for true practitioners. It's for those interested in designing and implementing Web Services now-and preparing for new opportunities on the horizon." --Jonathan Schwartz, Executive Vice President, Sun Microsystems

In this truly unique technical book, today's leading software architects present valuable principles on key development issues that go way beyond technology. More than four dozen architects -- including Neal Ford, Michael Nygard, and Bill de hOra -- offer advice for communicating with stakeholders, eliminating complexity, empowering developers, and many more practical lessons they've learned from years of experience. Among the 97 principles in this book, you'll find useful advice such as: Don't Put Your Resume Ahead of the Requirements (Nitin Borwankar) Chances Are, Your Biggest Problem Isn't Technical (Mark Ramm) Communication Is King: Clarity and Leadership, Its Humble Servants (Mark Richards) Simplicity Before Generality, Use Before Reuse (Kevlin Henney) For the End User, the Interface Is the System (Vinayak Hegde) It's Never Too Early to Think About Performance (Rebecca Parsons) To be successful as a software architect, you need to master both business and technology. This book tells you what top software architects think is important and how they approach a project. If you want to enhance your career, 97 Things Every Software Architect Should Know is essential reading.

Tap into the wisdom of experts to learn what every programmer should know, no matter what language you use. With the 97 short and extremely useful tips for programmers in this book, you'll expand your skills by adopting new approaches to old problems, learning appropriate best practices, and honing your craft through sound advice. With contributions from some of the most experienced and respected practitioners in the industry--including Michael Feathers, Pete Goodliffe, Diomidis Spinellis, Cay Horstmann, Verity Stob, and many more--this book contains practical knowledge and principles that you can apply to all kinds of projects. A few of the 97 things you should know: "Code in the Language of the Domain" by Dan North "Write Tests for People" by Gerard Meszaros "Convenience Is Not an -ility" by Gregor Hohpe "Know Your IDE" by Heinz Kabutz "A Message to the Future" by Linda Rising "The Boy Scout Rule" by Robert C. Martin (Uncle Bob) "Beware the Share" by Udi Dahan

#### PC Mag

End-to-end Integration with IBM Sterling B2B Integration and Managed File Transfer solutions

J2EE Design Patterns

CAiSE 2002 International Workshop, WES 2002, Toronto, Canada, May 27-28, 2002, Revised Papers

How to Find It and Fix It

**PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.**

**Across numerous vertical industries, enterprises are challenged to improve processing efficiency as transactions flow from their business communities to their internal systems and vice versa, simplify management and expansion of the external communities, accommodate customer and supplier preferences, govern the flow of information, enforce policy and standards, and protect sensitive information. Throughout this process, external partners must be on-boarded and off-boarded, information must flow across multiple communications infrastructures, and data must be mapped and transformed for consumption across multiple applications. Some transactions require synchronous or real-time processing while others are of a more periodic nature. For some classes of customer or supplier, the enterprise might prefer a locally-managed, on-premise solution. For some types of communities (often small businesses), an as-a-Service solution might be the best option. Many large enterprises combine the on-premise and as-a-Service approach to serve different categories of business partners (customers or suppliers). This IBM® Redbooks® publication focuses on solutions for end-to-end integration in complex value chains and presents several end-to-end common integration scenarios with IBM Sterling and IBM WebSphere® portfolios. We believe that this publication will be a reference for IT Specialists and IT Architects implementing an integration solution architecture involving IBM Sterling and IBM WebSphere portfolios.**

**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.**

Java Web Development Illuminated

J2EE Web Services

97 Things Every Software Architect Should Know

Enterprise JavaBeans

American Book Publishing Record

***Enterprise JavaBeans, Fourth Edition, is the definitive guide to EJB 2.1. It shows you how to build complex, mission-critical systems using snap-together software components that model business objects and processes. EJB 2.1 makes several important steps forward in EJB technology: message-driven beans are much more flexible, a time service has been added, and EJBs have been integrated with web services. Enterprise JavaBeans delivers on a promise chat was astonishing a few years ago: not only can EJBs run without modification on any operating system, they can run on any J2EE application server. However, after writing EJBs, you have to deploy them in an application server, and deploying EJBs can be a painful task. This edition includes the Jboss Workbook, which shows you how to deploy the examples on the open source JBoss Application Server. If you've done any enterprise software development in the past few years, you already know the extent to which EJB has changed the field. Use this book to catch up on the latest developments. If you're new to enterprise software development, or if you haven't been working with EJB, this book will bring you up to speed on this exciting technology for building business systems.***

***Offers an architectural overview of the programming language, including Entity Beans, Session Beans, transactions, design strategies, and XML deployment descriptors.***

***Provides information on using Tomcat 4 and 5, covering such topics as developing Java web servers, containers, loaders, security, and configuration work.***

***Enterprise JavaBeans 3.0***

***Elements of Reusable Object-Oriented Software***

***Beginning Java Web Services***