Java Enterprise In A Nutshell In A Nutshell Oreilly

A tutorial and reference to Java-based APIs for application software development covers such topics as XDoclet, JavaServer Faces, Hibernate API, Enterprise JavaBeans, and J2EE security.

Java Enterprise in a Nutshell"O'Reilly Media, Inc."

A tutorial and reference to Java-based APIs for application software development covers RMI, IDL, JAXP, JNDI, Java Servlets, and J2EE 1.3.

An omnibus collection of titles on Java--in both print and electronic versions--includes Java Enterprise in a Nutshell, Java in a Nutshell. Third Edition, Java Foundation Classes in a Nutshell, Enterprise JavaBeans. Second Edition, Java Servlet Programming, Java Security, and Java Distributed Computing. (Intermediate)

Explores options for using J2EE technologies in the creation of scalable software, providing a case study on a database and focusing on selecting leading-edge technologies and implementing the sample system.

Develop and deploy fully functional applications and microservices utilising Tomcat, Glassfish servers, Cloud and docker in Java EE 8 Key Features Explore the complete workflow of developing enterprise Java applications Develop microservices with Docker Container and deploy it in cloud Simplify Java EE application development Book Description Java EE is one of the most popular tools for enterprise application design and development. With recent changes to Java EE 8 specifications, Java EE application development has become a lot simpler with the new specifications, some of which compete with the existing specifications. This guide provides a complete overview of developing highly performant, robust and secure enterprise applications with Java EE with Eclipse. The book begins by exploring different Java EE technologies and how to use them (JSP, JSF, JPA, JDBC, EJB, and more), along with suitable technologies for different scenarios. You will learn how to set up the development environment for Java EE applications and understand Java EE specifications in detail, with an emphasis on examples. The book takes you through deployment of an application in Tomcat, GlassFish Servers, and also in the cloud. It goes beyond the basics and covers topics like debugging, testing, deployment, and securing your Java EE applications. You'll also get to know techniques to develop cloud-ready microservices in Java EE. What you will learn Set up Eclipse, Tomcat, and Glassfish servers for Java EE application development Use JSP, Servlet, JSF, and EJBs to create a user interface and write business logic Create Java EE database applications using JDBC and JPA Handle asynchronous messages using MDBs for better scalability Deploy and debug Java EE applications and create SOAP and REST web services Write unit tests and calculate code coverage Use Eclipse MAT (Memory Analysis Tool) to debug memory issues Create and deploy microservices Who this book is for If you are a Java developer with little or no experience in Java EE application development, or if you have experience in Java EE technology but are looking for tips to simplify and accelerate your development process, then this book is for you.

Learn how to code, package, deploy, and test functional Enterprise JavaBeans with the latest edition of this bestselling guide. Written by the developers of JBoss EJB 3.1, this book not only brings you up to speed on each component type and container service in this implementation, it also provides a workbook with several hands-on examples to

help you gain immediate experience with these components. With version 3.1, EJB's server-side component model for building distributed business applications is simpler than ever. But it's still a complex technology that requires study and lots of practice to master. Enterprise JavaBeans 3.1 is the most complete reference on this specification. You'll find a straightforward, no-nonsense explanation of the underlying technology, including Java classes and interfaces, the component model, and the runtime behavior of EJB. Develop your first EJBs with a hands-on walkthrough of EJB 3.1 concepts Learn how to encapsulate business logic with Session Beans and Message-Driven Beans Discover how to handle persistence through Entity Beans, the EntityManager, and the Java Persistence API Understand EJB's container services such as dependency injection, concurrency, and interceptors Integrate EJB with other technologies in the Java Enterprise Edition platform Use examples with either the JBossAS, OpenEJB, or GlassFish v3 EJB Containers

Introduces the concepts of the JXTA platform for peer-to-peer distributed computing, and includes the JXTA protocol specification.

Get up to speed on the principal technologies in the Java Platform, Enterprise Edition 7, and learn how the latest version embraces HTML5, focuses on higher productivity, and provides functionality to meet enterprise demands. Written by Arun Gupta, a key member of the Java EE team, this book provides a chapter-by-chapter survey of several Java EE 7 specifications, including WebSockets, Batch Processing, RESTful Web Services, and Java Message Service. You'll also get self-paced instructions for building an end-to-end application with many of the technologies described in the book, which will help you understand the design patterns vital to Java EE development. Understand the key components of the Java EE platform, with easy-to-understand explanations and extensive code samples Examine all the new components that have been added to Java EE 7 platform, such as WebSockets, JSON, Batch, and Concurrency Learn about RESTful Web Services, SOAP XML-based messaging protocol, and Java Message Service Explore Enterprise JavaBeans, Contexts and Dependency Injection, and the Java Persistence API Discover how different components were updated from Java EE 6 to Java EE 7

Nothing is as constant as change, and this is as true in enterprise computing as anywhere else. Since Java Enterprise in a Nutshell was first published in September of 1999, a dozen or more new APIs have been added to the platform, reflecting the new and different ways developers implement their enterprise objectives. And now developers are being called on to add even greater, more complex levels of interconnectivity to their applications, as the concepts behind Web Services solidify and implementation decisions need coding. Java developers today need a clear understanding of the new APIs, tools, capabilities and pitfalls in J2EE 2.0 so they can plan a technology and implementation strategy for new enterprise projects. Fortunately, this is exactly what they get with the new Java Enterprise in a Nutshell, 2nd edition! Completely revised and updated for the new 2.0 version of Sun Microsystems Java Enterprise Edition software, Java Enterprise in a Nutshell 2nd edition covers all of the J2EE APIs,

including RMI, Java IDL, JDBC, JNDI, Java Servlet, and Enterprise JavaBeans, with a fast-paced tutorial and compact reference on each technology. Then Java Enterprise in a Nutshell goes even further, providing a classic O'Reilly-style quick reference for all of the classes in the various packages that comprise the Enterprise APIs - covering the core enterprise APIs as well as numerous standard extensions.

Enterprise Java experts John Hunt and Chris Loftus take the reader through the core technologies that make up the Enterprise Edition of the Java 2 platform (J2EE). They cover all the aspects of J2EE that both the professional and student needs to know to build multi-tier enterprise applications in Java. This includes the various technologies, design methodology, and design patterns. The text contains fully worked examples, built up throughout the book, which enables the reader to quickly develop multi-tier applications. An invaluable text for those who want to build enterprise wide applications in Java.

"With this book, Ted Neward helps you make the leap from being a good Java enterprise developer to a great developer!" --John Crupi, Sun Distinguished Engineer coauthor, Core J2EE Patterns If you want to build better Java enterprise applications and work more efficiently, look no further. Inside, you will find an accessible guide to the nuances of Java 2 Platform, Enterprise Edition (J2EE) development. Learn how to: Use in-process or local storage to avoid the network, see item 44 Set lower isolation levels for better transactional throughput, see item 35 Use Web services for open integration, see item 22 Consider your lookup carefully, see item 16 Pre-generate content to minimize processing, see item 55 Utilize role-based authorization, see item 63 Be robust in the face of failure, see item 7 Employ independent JREs for side-by-side versioning, see item 69 Ted Neward provides you with 75 easily digestible tips that will help you master J2EE development on a systemic and architectural level. His panoramic look at the good, the bad, and the ugly aspects of J2EE development will address your most pressing concerns. Learn how to design your enterprise systems so they adapt to future demands. Improve the efficiency of your code without compromising its correctness. Discover how to implement sophisticated functionality that is not directly supported by the language or platform. After reading Effective Enterprise Java , you will know how to design and implement better, more scalable enterprise-scope Java software systems.

Java developers typically go through four "stages" in mastering Java. In the first stage, they learn the language itself. In the second stage, they study the APIs. In the third stage, they become proficient in the environment. It is in the fourth stage --"the expert stage"-- where things really get interesting, and Java Enterprise Best Practices is the tangible compendium of experience that developers need to breeze through this fourth and final stage of Enterprise Java mastery. Crammed with tips and tricks, Java Enterprise Best Practices distills years of solid experience from eleven experts in the J2EE environment into a practical, to-the-point guide to J2EE. Java Enterprise Best Practices gives developers the

unvarnished, expert-tested advice that the man pages don't provide--what areas of the APIs should be used frequently (and which are better avoided); elegant solutions to problems you face that other developers have already discovered; what things you should always do, what things you should consider doing, and what things you should never do--even if the documentation says it's ok. Until Java Enterprise Best Practices, Java developers in the fourth stage of mastery relied on the advice of a loose-knit community of fellow developers, time-consuming online searches for examples or suggestions for the immediate problem they faced, and tedious trial-and-error. But Java has grown to include a huge number of APIs, classes, and methods. Now it is simply too large for even the most intrepid developer to know it all. The need for a written compendium of J2EE Best Practices has never been greater. Java Enterprise Best Practices focuses on the Java 2 Enterprise Edition (J2EE) APIs. The J2EE APIs include such alphabet soup acronyms as EJB, JDBC, RMI, XML, and JMX.

With more than 700,000 copies sold to date, Java in a Nutshell from O'Reilly is clearly the favorite resource amongst the legion of developers and programmers using Java technology. And now, with the release of the 5.0 version of Java, O'Reilly has given the book that defined the "in a Nutshell" category another impressive tune-up. In this latest revision, readers will find Java in a Nutshell, 5th Edition, does more than just cover the extensive changes implicit in 5.0, the newest version of Java. It's undergone a complete makeover--in scope, size, and type of coverage--in order to more closely meet the needs of the modern Java programmer. To wit, Java in a Nutshell, 5th Edition now places less emphasis on coming to Java from C and C++, and adds more discussion on tools and frameworks. It also offers new code examples to illustrate the working of APIs, and, of course, extensive coverage of Java 5.0. But faithful readers take comfort: it still hasn't lost any of its core elements that made it such a classic to begin with. This handy reference gets right to the heart of the program with an accelerated introduction to the Javaprogramming language and its key APIs--ideal for developers wishing to start writing code right away. And, as was the case in previous editions, Java in a Nutshell, 5th Edition is once again chock-full of poignant tips, techniques, examples, and practical advice. For as longas Java has existed, Java in a Nutshell has helped developers maximize the capabilities of the program's newest versions. And this latest edition is no different.

The author of the best-selling Java in a Nutshell has created an entire book of real-world Java programming examples that you can learn from. If you learn best "by example," this is the book for you.This third edition covers Java 1.4 and contains 193 complete, practical examples: over 21,900 lines of densely commented, professionally written Java code, covering 20 distinct client-side and server-side APIs. It includes new chapters on the Java Sound API and the New I/O API. The chapters on XML and servlets have been rewritten to cover the latest versions of the specifications and to demonstrate best practices for Java 1.4. New and updated examples throughout the book demonstrate many other

new Java features and APIs.Java Examples in a Nutshell is a companion volume to Java in a Nutshell, Java Foundation Classes in a Nutshell, and Java Enterprise in a Nutshell. It picks up where those quick references leave off, providing a wealth of examples for both novices and experts. This book doesn't hold your hand; it simply delivers well-commented working examples with succinct explanations to help you learn and explore Java and its APIs.Java Examples in a Nutshell contains examples that demonstrate: Core APIs, including I/O, New I/O, threads, networking, security, serialization, and reflection Desktop APIs, highlighting Swing GUIs, Java 2D graphics, preferences, printing, drag-and-drop, JavaBeans, applets, and sound Enterprise APIs, including JDBC (database access), JAXP (XML parsing and transformation), Servlets 2.4, JSP 2.0 (JavaServer Pages), and RMI The book begins with introductory examples demonstrating structured and object-oriented programming techniques for new Java programmers. A special index at the end of the book makes it easy to look up examples that use a particular Java class or accomplish a desired task. In between, each chapter includes exercises that challenge readers and suggest further avenues for exploration.

J2EE (Java 2 Enterprise Edition) est un ensemble de paquetages cohérents regroupés par Sun afin de répondre aux besoins de l'informatique distribuée. Cette plate-forme s'est largement imposée dans les entreprises car elle permet de faire communiquer des composants hétérogènes, et donc a priori incompatibles. Java Enterprise in a Nutshell est un manuel de référence indispensable à tout programmeur Java qui souhaite développer des applications pour l'entreprise et qui a recours à la plate-forme de Sun. Si c'est votre cas vous trouverez rapidement dans ce livre la réponse à toutes ses questions. Cet ouvrage est divisé en trois parties. La première partie offre une introduction complète aux API essentielles. L'approche pédagogique et les exemples pratiques permettront au développeur de se familiariser avec les sujets suivants : JDBC (pour l'accès à des bases de données) ; RMI et java IDL (pour l'informatique distribuée) ; JNDI (pour les services de nommage et d'annuaire) ; les EJB (pour le développement de solutions métier) ; les servlets Java (pour l'exécution de tâches sur des serveurs web). La deuxième partie comporte des chapitres de référence sur SQL, les outils RMI, IDL et les différents services CORBA. Enfin la troisième partie passe en revue toutes les classes des différents paquetages qui composent java Enterprise. On y trouve non seulement les API fondamentales de java 2 mais également de nombreuses extensions standards comme JMS (Java Message Service) ou encore JTA (java Transaction API). Un index permet de retrouver en un clin d'œil la classe, la méthode ou le champ désirés. Ce livre trouvera sa place auprès de Java in a Nutshell, qui couvre les API génériques, et de Java Foundation Classes in a Nutshell, qui couvre les API graphiques. En complément, Exemples en Java in a Nutshell reprend les notions fondamentales de ces trois ouvrages et propose toute une série d'exemples types ainsi que des exercices didactiques.

The Java EE 7 Tutorial: Volume 2, Fifth Edition, is a task-oriented, example-driven guide to developing enterprise applications for the Java Platform, Enterprise Edition 7 (Java EE 7). Written by members of the Java EE documentation team at Oracle, this book provides new and intermediate Java programmers with a deep understanding of the platform. This guide includes descriptions of platform features and provides instructions for using the latest versions of NetBeans IDE and GlassFish Server Open Source Edition. The book introduces Enterprise JavaBeans components, the Java Persistence API, the Java Message Service (JMS) API, Java EE security, transactions, resource adapters, Java EE Interceptors, Batch Applications for the Java Platform, and Concurrency Utilities for Java EE. The book culminates with three case studies that illustrate the use of multiple Java EE 7 APIs.

The first end-to-end, practical guide for building enterprise-wide Java applications. This title covers all the issues--from managing legacy code to building CORBA-based distributed applications, and beyond. The CD-ROM contains source code and valuable Java application tools.

A definitive guide to Java security explains how to incorporate J2SE and J2EE security technologies into the construction of a secure enterprise infrastructure composed primarily of Java-based enterprise applications, offering comprehensive coverage of the J2SE and J2EE security architectures, as well as practical solutions to ensure security. Original. (Advanced)

Summary Enterprise Java Microservices is an example-rich tutorial that shows how to design and manage large-scale Java applications as a collection of microservices. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Large applications are easier to develop and maintain when you build them from small, simple components. Java developers now enjoy a wide range of tools that support microservices application development, including right-sized app servers, open source frameworks, and well-defined patterns. Best of all, you can build microservices applications using your existing Java skills. About the Book Enterprise Java Microservices teaches you to design and build JVM-based microservices applications. You'll start by learning how microservices designs compare to traditional Java EE applications. Always practical, author Ken Finnigan introduces big-picture concepts along with the tools and techniques you'll need to implement them. You'll discover ecosystem components like Netflix Hystrix for fault tolerance and master the Just enough Application Server (JeAS) approach. To ensure smooth operations, you'll also examine monitoring, security, testing, and deploying to the cloud. What's inside The microservices mental model Cloud-native development Strategies for fault tolerance and monitoring Securing your finished applications About the Reader This book is for Java developers familiar with Java EE. About the Author Ken Finnigan leads the Thorntail project at Red Hat, which seeks to make developing microservices for the cloud with Java and Java EE as easy as possible. Table of Contents PART 1

MICROSERVICES BASICS Enterprise Java microservices Developing a simple RESTful microservice Just enough Application Server for microservices Microservices testing Cloud native development PART 2 - IMPLEMENTING ENTERPRISE JAVA MICROSERVICES Consuming microservices Discovering microservices for consumption Strategies for fault tolerance and monitoring Securing a microservice Architecting a microservice hybrid Data streaming with Apache Kafka

Intended for Java programmers writing applications or applets involving graphics or graphical user interfaces and is a companion to the book entitled, "Java in a Nutshell, 3rd ed."

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

The first hands-on guide to building Java enterprise applications, updated and expanded to cover all of J2EE's exciting new features Java has always been great when it came to creating Web applets, but, until now, it was hardly up to the task of building high-performance applications. Increased XML support, EJB 2.0, and a new APM, Java2 Enterprise Edition (J2EE), offer developers what they need to build powerful enterprise applications. This updated and expanded edition of the popular hands-on guide shows them how. It uses the examples of two large-scale enterprise applications--complete with source code--to show readers how to use J2EE's various APIs together as well as with other technologies, such as CORBA, COM, Servlets, and Agents. The book also features substantially expanded coverage of Enterprise JavaBeans and tells how to get the most out of EJB 2.0 tools and products. Topics of special interest to Java developers include: building a Servlet search engine; creating online stores with Java Server Pages; using transactions with EJBs and JDBC to create N-Tier applications; and selecting the best middleware for your needs.

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

Java Examples in a Nutshell is a companion volume to Java in a Nutshell, Java Foundation Classes in a Nutshell, and Java Enterprise in a Nutshell. It picks up where those quick references leave off, providing a wealth of examples for both novices and experts. This book doesn't hold your hand; it simply delivers well-commented working examples with succinct explanations to help you learn and explore Java and its APIs.

PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE

One of Java's most striking claims is that it provides a secure programming environment. Yet despite endless discussion, few people understand precisely what Java's claims mean and how it backs up those claims. If you're a developer, network administrator or anyone else who must understand or work with Java's security mechanisms, Java Security is the in-depth exploration you need.Java Security, 2nd Edition, focuses on the basic platform features of Java that provide security--the class loader, the bytecode verifier, and the security manager--and recent additions to Java that enhance this security model: digital signatures, security providers, and the access controller. The book covers the security model of Java 2, Version 1.3, which is significantly different from that of Java 1.1. It has extensive coverage of the two new important security APIs: JAAS (Java Authentication and Authorization Service) and JSSE (Java Secure Sockets Extension). Java Security, 2nd Edition, will give you a clear understanding of the architecture of Java's security model and how to use that model in both programming and administration.The book is intended primarily for programmers who want to write secure Java applications. However, it is also an excellent resource for system and network administrators who are interested in Java security, particularly those who are interested in assessing the risk of using Java and need to understand how the security model works in order to assess whether or not Java meets their security needs.

Provides both a tutorial and a quick reference guide to the Java APIs for Web services development, with a study of the different types of Web services, an explanation of JWSDP, and other documentation and supplementary material.

Practical JBoss Seam® Web 2.0 Projects, written by renowned author and enterprise Java practitioner Jim Farley, is a practical, projects-based book on this groundbreaking open source lightweight JSF-EJB3 framework. It uses practical application scenarios to demonstrate the nature of the JBoss Seam framework, its efficacy, and its limitations. A series of scenarios and real-world case studies offer valuable insight into the new practices of JBoss Seam Web 2.0 development. Each demonstrates a specific element of the framework, from a PayPal-like web application project to designing rich web user interfaces using Seam and Ajax.

A comprehensive collection of problems, solutions, and practical examples for anyone programming in Java, "The Java Cookbook" presents hundreds of tried-and-true Java "recipes" covering all of the major APIs as well as some APIs that aren't as well documented in other Java books. The book provides quick solutions to particular problems that can be incorporated into other programs, but that aren't usually programs in and of themselves.

A guide to the operating system's commands and options covers new commands, shell syntax, regular expressions, and obsolete terminology

Java EE 7 Recipes takes an example-based approach in showing how to program Enterprise Java applications in many different scenarios. Be it a small-business web application, or an enterprise database application, Java EE 7 Recipes provides effective and proven solutions to accomplish just about any task that you may encounter. You can feel confident using the reliable solutions that are demonstrated in this book in your personal or corporate environment. The solutions in Java EE 7 Recipes are built using the most current Java Enterprise specifications, including EJB 3.2, JSF 2.2, Expression Language 3.0, Servlet 3.1, and JMS 2.0. While older

technologies and frameworks exist, it is important to be forward-looking and take advantage of all that the latest technologies offer. Rejuvenate your Java expertise to use the freshest capabilities, or perhaps learn Java Enterprise development for the first time and discover one of the most widely used and most powerful platforms available for application development today. Let Java EE 7 Recipes show you the way by showing how to build streamlined and reliable applications much faster and easier than ever before by making effective use of the latest frameworks and features on offer in the Java EE 7 release. Shows off the most current Java Enterprise Edition technologies. Provides solutions to creating sophisticated user interfaces. Demonstrates proven solutions for effective database access. Table of ContentsIntroduction to Servlets JavaServer Pages The Basics of JavaServer Faces Facelets JavaServer Faces Standard Components Advanced JavaServer Faces and Ajax JDBC Object-Relational Mapping Enterprise JavaBeans The Query API and JPQL Oracle's Glassfish Contexts and Dependency Injection Java Message Service Authentication and Security Java Web Services Enterprise Solutions Using Alternative Programming Languages WebSockets and JSON-P JavaFX in the Enterprise Concurrency and Batch Applications

Java developers typically go through four "stages" in mastering Java. In the first stage, they learn the language itself. In the second stage, they study the APIs. In the third stage, they become proficient in the environment. It is in the fourth stage --"the expert stage"-- where things really get interesting, and Java Enterprise Best Practices is the tangible compendium of experience that developers need to breeze through this fourth and final stage of Enterprise Java mastery.Crammed with tips and tricks, Java Enterprise Best Practices distills years of solid experience from eleven experts in the J2EE environment into a practical, to-the-point guide to J2EE.Java Enterprise Best Practices gives developers the unvarnished, expert-tested advice that the man pages don't provide--what areas of the APIs should be used frequently (and which are better avoided); elegant solutions to problems you face that other developers have already discovered; what things you should always do, what things you should consider doing, and what things you should never do--even if the documentation says it's ok.Until Java Enterprise Best Practices, Java developers in the fourth stage of mastery relied on the advice of a loose-knit community of fellow developers, time-consuming online searches for examples or suggestions for the immediate problem they faced, and tedious trial-and-error. But Java has grown to include a huge number of APIs, classes, and methods. Now it is simply too large for even the most intrepid developer to know it all. The need for a written compendium of J2EE Best Practices has never been greater.Java Enterprise Best Practices focuses on the Java 2 Enterprise Edition (J2EE) APIs. The J2EE APIs include such alphabet soup acronyms as EJB, JDBC, RMI, XML, and JMX.

A tutorial and reference to Java-based APIs for application software development covers RMI, IDL, JDBC, JNDI, and Java Servlets.

Develop Enterprise Java applications compliant with the latest version of the Java EE specification About This Book This book covers all of the major Java EE 8 APIs and includes new additions such as enhanced Security, JSON-B Processing, and more Learn additional Java EE APIs, such as the Java API for Websocket and the Java Message Service (JMS) Develop applications by taking advantage of the latest versions

of CDI, Security, Servlets, and JSF and other Java EE specifications Who This Book Is For If you are a Java developer who wants to become proficient with Java EE 8, this book is ideal for you. You are expected to have some experience with Java and to have developed and deployed applications in the past, but you don't need any previous knowledge of Java EE. What You Will Learn Develop and deploy Java EE applications Embrace the latest additions to the Contexts and Dependency Injection (CDI) specification to develop Java EE applications Develop web-based applications by utilizing the latest version of JavaServer Faces, JSF 2.3. Understand the steps needed to process JSON data with JSON-P and the new JSON-B Java EE API Implement RESTful web services using the new JAX-RS 2.1 API, which also includes support for Server-Sent Events (SSE) and the new reactive client API In Detail Java EE is an Enterprise Java standard. Applications written to comply with the Java EE specification do not tie developers to a specific vendor; instead they can be deployed to any Java EE compliant application server. With this book, you'll get all the tools and techniques you need to build robust and scalable applications in Java EE 8. This book covers all the major Java EE 8 APIs including JSF 2.3, Enterprise JavaBeans (EJB) 3.2, Contexts and Dependency Injection (CDI) 2.0, the Java API for WebSockets, JAX-RS 2.1, Servlet 4.0, and more. The book begins by introducing you to Java EE 8 application development and goes on to cover all the major Java EE 8 APIs. It goes beyond the basics to develop Java EE applications that can be deployed to any Java EE 8 compliant application server. It also introduces advanced topics such as JSON-P and JSON-B, the Java APIs for JSON processing, and the Java API for JSON binding. These topics dive deep, explaining how the two APIs (the Model API and the Streaming API) are used to process JSON data. Moving on, we cover additional Java EE APIs, such as the Java API for Websocket and the Java Message Service (JMS), which allows loosely coupled, asynchronous communication. Further on, you'll discover ways to secure Java EE applications by taking advantage of the new Java EE Security API. Finally, you'll learn more about the RESTful web service development using the latest JAX-RS 2.1 specification. You'll also get to know techniques to develop cloud-ready microservices in Java EE. Style and approach The book takes a pragmatic approach, showing you various techniques to utilize new features of Java EE 8 specification. It is packed with clear, step-by-step instructions, practical examples, and straightforward explanations.

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.

This title provides an in-depth technical look at XML Data Binding, offering complete documentation of all features in both the Sun Microsystems API and popular open source alternative implementations.

"A quick reference for simplified Enterprise Java development"--Cover.