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—Martin Fowler, Chief Scientist, ThoughtWorks

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Best Practices and Design Strategies

SECOND EDITION



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► Forewords by Grady Booch and Martin Fowler

Core Design Series

Core J2ee Patterns Best Practices And Design Strategies

Douglas C. Schmidt, Frank Buschmann



Core J2ee Patterns Best Practices And Design Strategies:

Core J2EE patterns Deepak Alur, John Crupi, Dan Malks, 2003 The Java landscape is littered with libraries tools and specifications What's been lacking is the expertise to fuse them into solutions to real world problems These patterns are the intellectual mortar for J2EE software construction John Vlissides co author of Design Patterns the Gang of Four book The authors of Core J2EE Patterns have harvested a really useful set of patterns They show how to apply these patterns and how to refactor your system to take advantage of them It's just like having a team of experts sitting at your side Grady Booch Chief Scientist Rational Software Corporation The authors do a great job describing useful patterns for application architectures The section on refactoring is worth the price of the entire book Craig McClanahan Struts Lead Architect and Specification Lead for JavaServer Faces Core J2EE Patterns is the gospel that should accompany every J2EE application server Built upon the in the trenches expertise of its veteran architect authors this volume unites the platform's many technologies and APIs in a way that application architects can use and provides insightful answers to the whys whens and hows of the J2EE platform Sean Neville JRun Enterprise Architect Macromedia Developers often confuse learning the technology with learning to design with the technology In this book senior architects from the Sun Java Center share their cumulative design experience on Java 2 Platform Enterprise Edition J2EE technology The primary focus of the book is on patterns best practices design strategies and proven solutions using the key J2EE technologies including JavaServer Pages™ JSP™ Servlets Enterprise JavaBeans™ EJB™ and Java™ Message Service JMS APIs The J2EE Pattern Catalog with 21 patterns and numerous strategies is presented to document and promote best practices for these technologies Core J2EE Patterns Second Edition offers the following J2EE Pattern Catalog with 21 patterns fully revised and newly documented patterns providing proven solutions for enterprise applications Design strategies for the presentation tier business tier and integration tier Coverage of servlets JSP EJB JMS and Web Services J2EE technology bad practices Refactorings to improve existing designs using patterns Fully illustrated with UML diagrams Extensive sample code for patterns strategies and refactorings

Core J2EE Patterns Deepak Alur, John Crupi, Dan Malks, 2003 Core Security Patterns Christopher Steel, Ramesh Nagappan, Ray Lai, 2005 Praise for Core Security Patterns Java provides the application developer with essential security mechanisms and support in avoiding critical security bugs common in other languages A language however can only go so far The developer must understand the security requirements of the application and how to use the features Java provides in order to meet those requirements Core Security Patterns addresses both aspects of security and will be a guide to developers everywhere in creating more secure applications Whitfield Diffie inventor of Public Key Cryptography A comprehensive book on Security Patterns which are critical for secure programming Li Gong former Chief Java Security Architect Sun Microsystems and coauthor of Inside Java 2 Platform Security As developers of existing applications or future innovators that will drive the next generation of highly distributed applications the patterns and best practices outlined in

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Professional Java EE Design Patterns Murat Yener,Alex Theedom,2015-01-12 Master Java EE design pattern implementation to improve your design skills and your application s architecture Professional Java EE Design Patterns is the perfect companion for anyone who wants to work more effectively with Java EE and the only resource that covers both the theory and application of design patterns in solving real

world problems The authors guide readers through both the fundamental and advanced features of Java EE 7 presenting patterns throughout and demonstrating how they are used in day to day problem solving As the most popular programming language in community driven enterprise software Java EE provides an API and runtime environment that is a superset of Java SE Written for the junior and experienced Java EE developer seeking to improve design quality and effectiveness the book covers areas including Implementation and problem solving with design patterns Connection between existing Java SE design patterns and new Java EE concepts Harnessing the power of Java EE in design patterns Individually based focus that fully explores each pattern Colorful war stories showing how patterns were used in the field to solve real life problems Unlike most Java EE books that simply offer descriptions or recipes this book drives home the implementation of the pattern to real problems to ensure that the reader learns how the patterns should be used and to be aware of their pitfalls For the programmer looking for a comprehensive guide that is actually useful in the everyday workflow Professional Java EE Design Patterns is the definitive resource on the market

Sun Certified Enterprise Architect for Java EE Study Guide Mark Cade,Humphrey Sheil,2010-01-29 Definitive Comprehensive SCEA Exam Prep Straight from Sun s Exam Developers This book delivers complete focused review for Sun s new Sun Certified Enterprise Architect SCEA for Java EE certification exam straight from two of the exam s creators SCEA lead developer assessor Mark Cade and SCEA lead developer assessor Humphrey Sheil offer powerful insights real world architectural case studies and challenging sample questions that systematically prepare you for the actual exam For every question the authors show why the right answers are right and why the other answers are wrong Cade and Sheil cover every SCEA exam topic skill and technique including Understanding system architecture and its goals Decomposing larger systems into components organized by tiers or layers Addressing requirements for scalability maintainability reliability availability extensibility performance and security Building effective web presentation tiers and analyzing tradeoffs associated with using web frameworks Leveraging EJB 3 s enhancements for business tier development Covering new enhancements in the JEE 5 platform Choosing and architecting the best integration and messaging components for your system Using the Java security model to enforce confidentiality integrity authorization authentication and non repudiation Using the most powerful and useful Java EE architecture patterns Documenting Java EE architectures through visual models and narratives The authors also present detailed guidance for handling every element of the SCEA exam including your development and defense of a complete real world architectural solution

Implementing SOA Using Java EE B.V. Kumar,Prakash Narayan,Tony Ng,2009-12-23 The Practitioner s Guide to Implementing SOA with Java EE Technologies This book brings together all the practical insight you need to successfully architect enterprise solutions and implement them using SOA and Java EE technologies Writing for senior IT developers strategists and enterprise architects the authors cover everything from concepts to implementation requirements to tools The authors first review the Java EE platform s essential elements in the context of SOA and web services deployment and demonstrate how

Java EE has evolved into the world's best open source solution for enterprise SOA. After discussing standards such as SOAP, WSDL, and UDDI, they walk through implementing each key aspect of SOA with Java EE. Step by step, you'll learn how to integrate service-oriented web and business components of Java EE technologies with the help of process-oriented standards such as BPEL and CDL into a coherent tiered enterprise architecture that can deliver a full spectrum of business services.

Implementing SOA Using Java EE concludes with a section-length case study that walks through analyzing a company's requirements, creating an effective SOA architecture, and building a concise proof of concept prototype with NetBeans IDE. Coverage includes using Java EE technologies to simplify SOA implementation, mastering messaging service descriptions, registries, orchestration, choreography, and other essential SOA concepts. Building an advanced web services infrastructure for implementing SOA using Java Persistence API to provide for persistence. Getting started with Java Business Integration (JBI), the new open specification for delivering SOA. Implementing SOA at the web and business tiers. Developing, configuring, and deploying SOA systems with NetBeans IDE. Constructing SOA systems with NetBeans SOA Pack.

Pro Apache Struts with Ajax Kunal Mittal, Rob Harrop, John Carnell, 2007-05-02. Pro Apache Struts with Ajax maps out how to use the Apache Struts MVC web framework so you can solve everyday web application development challenges. This book takes an application-centric approach: the development of an application drives Struts along, with Ajax coverage not the other way around. Improper design can lead to long-term dependencies on the Struts framework, which makes code reuse difficult to achieve. This is the only book of its kind covering the Struts 1.2 framework. It also covers evolutions into Shale and lightweight WebWork. Struts Ti. Authors John Carnell and Rob Harrop discuss Struts from an antipattern perspective, and the end result is that you'll learn to use Struts very effectively.

Expert One-on-One J2EE Design and Development Rod Johnson, 2002-10-23. What is this book about? The results of using J2EE in practice are often disappointing: applications are often slow, unduly complex, and take too long to develop. Rod Johnson believes that the problem lies not in J2EE itself but in that it is often used badly. Many J2EE publications advocate approaches that, while fine in theory, often fail in reality or deliver no real business value. Expert One-on-One J2EE Design and Development aims to demystify J2EE development. Using a practical focus, it shows how to use J2EE technologies to reduce rather than increase complexity. Rod draws on his experience of designing successful high-volume J2EE applications and salvaging failing projects, as well as intimate knowledge of the J2EE specifications, to offer a real-world how-to guide on how you too can make J2EE work in practice. It will help you to solve common problems with J2EE and avoid the expensive mistakes often made in J2EE projects. It will guide you through the complexity of the J2EE services and APIs to enable you to build the simplest possible solution, on time and on budget. Rod takes a practical, pragmatic approach, questioning J2EE orthodoxy where it has failed to deliver results in practice and instead suggesting effective, proven approaches. What does this book cover? In this book, you will learn when to use a distributed architecture, when and how to use EJB, how to develop an efficient data access strategy, how to design a clean and

maintainable web interface How to design J2EE applications for performance Who is this book for This book would be of value to most enterprise developers Although some of the discussion for example on performance and scalability would be most relevant to architects and lead developers the practical focus would make it useful to anyone with some familiarity with J2EE Because of the complete design deployment coverage a less advanced developer could work through the book along with a more introductory text and successfully build and understand the sample application This comprehensive coverage would also be useful to developers in smaller organisations who might be called upon to fill several normally distinct roles What is special about this book Wondering what differentiates this book from others like it in the market Take a look It does not just discuss technology but stress its practical application The book is driven from the need to solve common tasks rather than by the elements of J2EE It discuss risks in J2EE development It takes the reader through the entire design development and build process of a non trivial application This wouldn t be compressed into one or two chapters like the Java Pet Store but would be a realistic example comparable to the complexity of applications readers would need to build At each point in the design alternative choices would be discussed This would be important both where there s a real problem with the obvious alternative and where the obvious alternatives are perhaps equally valid It emphasizes the use of OO design and design patterns in J2EE without becoming a theoretical book

Sun Certified Web Component Developer Study Guide (Exams 310-081 & 310-082) David Bridgewater,2005-09-28 An integrated study system based on proven instructional methodology this book and CD package shows you not only what but how to study for the SCWCD exam The book offers complete coverage of all official exam objectives 190 practice exam questions step by step exercises on the job elements and chapter self tests The CD ROM contains MasterExam software with a complete 69 question exam a searchable electronic book 45 complete web applications with source and access to a downloadable bonus exam with free online registration

Pattern-oriented Software Architecture: Patterns for resource management Douglas C. Schmidt, Frank Buschmann, 1996 This fourth volume in the POSA series explores the concepts underlying patterns The goal is to bring together the POSA pattern theory in one volume allowing readers to deepen their understanding of what patterns are what they are not and how to use them successfully

Oracle 9iAS Building J2EE Applications Nirva Morisseau-Leroy, 2002 With this book you will learn to design and develop Oracle9i enterprise applications with Java 2 Platform Enterprise Edition J2EE This essential resource explains how to create J2EE applications and deploy them to Oracle9iAS Containers for J2EE OC4J You ll learn how to build Enterprise JavaBeans EJB using EJB 2.0 specification servlets and JavaServer Pages JSP You ll also get coverage of the technologies supported by OC4J including JDBC SQLJ Oracle9iAS TopLink and more Back cover

Code Quality Diomidis Spinellis, 2006 Page 26 How can I avoid off by one errors Page 143 Are Trojan Horse attacks for real Page 158 Where should I look when my application can t handle its workload Page 256 How can I detect memory leaks Page 309 How do I target my application to international markets Page 394 How should I name my code s identifiers Page 441 How can I

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Model Driven Architecture David S. Frankel, 2003-01-17 Model Driven Architecture MDA is a new methodology from OMG that uses modeling languages like UML along with programming languages like Java to build software architectures PriceWatersCoopers prestigious Technology Center just predicted that MDA will be one of the most important methodologies in the next two years Written by the lead architect of the specification who provides inside information on how MDA has worked in the real world Describes MDA in detail and demonstrates how it can work with existing methodologies and technologies such as UML MOF CWM and Web services

Handbook of Research on Learning Design and Learning Objects Lori Lockyer, 2008 Designing effective learning experiences is a significant challenge for educators This book provides an overview of the research and development activity in the area of learning designs in terms of teaching perspective and technological advances It also brings together over 40 studies that provide a complete picture of the subject

Report, 2003 **J2EE AntiPatterns** Bill Dudley, 2003 In this book the authors present 25 Java AntiPatterns that tackle many of Java's biggest trouble spots for programming with EJB JSP Servlets and more Each AntiPattern is documented with real world examples code and refactored or escape route solutions and the book uses UML where appropriate to diagram improved solutions

26th Annual International Computer Software and Applications Conference IEEE Computer Society, 2002 Collects the 172 papers presented during the August 2002 conference with the theme of Prolonging software life development and redevelopment The main subjects of the 38 sessions are component based software development software process quality control testing software evolution web based sy

Dr. Dobb's Journal, 2004 **Pattern-oriented Software Architecture** Douglas C. Schmidt, Frank Buschmann, 1996 This fourth volume in the POSA series explores the concepts underlying patterns The goal is to bring together the POSA pattern theory in one volume allowing readers to deepen their understanding of what patterns are what they are not and how to use them successfully

American Book Publishing Record, 2002

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