

Pro Spring 3 Rob Harrop

Pro Spring 3 Apress

Pro Spring MVC provides in-depth coverage of Spring MVC and Spring Web Flow, two highly customizable and powerful web frameworks brought to you by the developers and community of the Spring Framework. Spring MVC is a modern web application framework built upon the Spring Framework, and Spring Web Flow is a project that complements Spring MVC for building reusable web controller modules that encapsulate rich page navigation rules. Along with detailed analysis of the code and functionality, plus the first published coverage of Spring Web Flow 2.x, this book includes numerous tips and tricks to help you get the most out of Spring MVC, Spring Web Flow, and web development in general. Spring MVC and Spring Web Flow have been upgraded in the new Spring Framework 3.1 and are engineered with important considerations for design patterns and expert object-oriented programming techniques. This book explains not only the design decisions of the frameworks, but also how you can apply similar designs and techniques to your own code. This book takes great care in covering every inch of Spring MVC and Spring Web Flow to give you the complete picture. Along with all the best known features of these frameworks, you'll discover some new hidden

treasures. You'll also learn how to correctly and safely extend the frameworks to create customized solutions. This book is for anyone who wishes to write robust, modern, and useful web applications with the Spring Framework.

In this book, the authors take an application-centric approach: the development of an application drives the Struts along with Ajax coverage, rather than the other way around. Chapter titles include: What We Do Wrong: Web Antipatterns Explained; Managing Business Logic with Struts; Architecting the Data Access Tier with ObjectRelationalBridge; Building Flexible Front-Ends with the Tiles Framework; Dynamic Forms using Ajax and the Struts Validator Framework; Speeding Struts Development with XDoclet, and Logging and Debugging. Appendices discuss JavaEdge setup, Struts development tools, and Apache Struts Ti/WebWork. The end result: you will learn to use Struts very effectively!

Security is a key element in the development of any non-trivial application. The Spring Security Framework provides a comprehensive set of functionalities to implement industry-standard authentication and authorization mechanisms for Java applications. Pro Spring Security will be a reference and advanced tutorial that will do the following: Guides you through the implementation of the security features for a Java web application by presenting consistent examples built from the ground-

up. Demonstrates the different authentication and authorization methods to secure enterprise-level applications by using the Spring Security Framework. Provides you with a broader look into Spring security by including up-to-date use cases such as building a security layer for RESTful web services and Grails applications.

Agile Java™ Development With Spring, Hibernate and Eclipse is a book about robust technologies and effective methods which help bring simplicity back into the world of enterprise Java development. The three key technologies covered in this book, the Spring Framework, Hibernate and Eclipse, help reduce the complexity of enterprise Java development significantly. Furthermore, these technologies enable plain old Java objects (POJOs) to be deployed in light-weight containers versus heavy-handed remote objects that require heavy EJB containers. This book also extensively covers technologies such as Ant, JUnit, JSP tag libraries and touches upon other areas such as such logging, GUI based debugging, monitoring using JMX, job scheduling, emailing, and more. Also, Extreme Programming (XP), Agile Model Driven Development (AMDD) and refactoring are methods that can expedite the software development projects by reducing the amount of up front requirements and design; hence these methods are embedded throughout the book but with just enough details and

examples to not sidetrack the focus of this book. In addition, this book contains well separated, subjective material (opinion sidebars), comic illustrations, tips and tricks, all of which provide real-world and practical perspectives on relevant topics. Last but not least, this book demonstrates the complete lifecycle by building and following a sample application, chapter-by-chapter, starting from conceptualization to production using the technology and processes covered in this book. In summary, by using the technologies and methods covered in this book, the reader will be able to effectively develop enterprise-class Java applications, in an agile manner!

Solve all your Spring 5 problems using complete and real-world code examples. When you start a new project, you'll be able to copy the code and configuration files from this book, and then modify them for your needs. This can save you a great deal of work over creating a project from scratch. The recipes in Spring 5 Recipes cover Spring fundamentals such as Spring IoC container, Spring AOP/ AspectJ, and more. Other recipes include Spring enterprise solutions for topics such as Spring Java EE integration, Spring Integration, Spring Batch, Spring Remoting, messaging, transactions, and working with big data and the cloud using Hadoop and MongoDB. Finally, Spring web recipes cover Spring MVC, other dynamic scripting,

integration with the popular Grails Framework (and Groovy), REST/web services, and more. You'll also see recipes on new topics such as Spring Framework 5, reactive Spring, Spring 5 microservices, the functional web framework and much more. This book builds upon the best-selling success of the previous editions and focuses on the latest Spring Framework features for building enterprise Java applications. What You'll Learn Get re-usable code recipes and snippets for core Spring, annotations and other development tools Access Spring MVC for web development Work with Spring REST and microservices for web services development and integration into your enterprise Java applications Use Spring Batch, NoSQL and big data for building and integrating various cloud computing services and resources Integrate Java Enterprise Edition and other Java APIs for use in Spring Use Grails code and much more Who This Book Is For Experienced Java and Spring programmers.

* First to market with complete Hibernate 3 coverage and real-world application design tips. *

Comprehensive reference for Hibernate object relational mapping strategies. * Integrated approach to database and Java application design.

Strut your stuff with this completely up-to-date guide Struts guru James Holmes has completely revised and updated his definitive, bestselling Struts volume. You will get soup-to-nuts

coverage of Struts 1.3, the latest version of the framework used to create flexible, high-performance web applications. The book features insider tips, tricks, and techniques to make Struts applications sizzle.

This book explores how to increase the efficiency of decision-making for enterprise management and increase its competitiveness based on mathematical modeling of the benchmarking process, predictive modeling of the dynamics of economic performance indicators, and the synthesis and selection of development strategies using software tools. It argues that, instead of mutually devouring competition, which is common in the modern world, the model of friendly cooperative benchmarking on the principle of 'win-win' is proposed for consideration. The advantage of this principle over the classic competitiveness one is proved through mathematical modeling and implementation of this approach in the activities of real companies, banks and industrial enterprises.

Who are we, and how do we relate to each other? Luciano Floridi, one of the leading figures in contemporary philosophy, argues that the explosive developments in Information and Communication Technologies (ICTs) is changing the answer to these fundamental human questions. As the boundaries between life online and offline break down, and we become seamlessly connected to each other and surrounded by smart, responsive objects, we are all becoming integrated into an "infosphere". Personas we adopt in social media, for example, feed into our 'real' lives so that we begin to live, as Floridi puts in, "onlife". Following those led by Copernicus, Darwin, and Freud, this metaphysical shift represents nothing less than a fourth revolution. "Onlife" defines more and more of our daily activity - the way we shop, work, learn, care for our health, entertain ourselves, conduct our relationships; the way we interact with the worlds of law, finance, and politics;

even the way we conduct war. In every department of life, ICTs have become environmental forces which are creating and transforming our realities. How can we ensure that we shall reap their benefits? What are the implicit risks? Are our technologies going to enable and empower us, or constrain us? Floridi argues that we must expand our ecological and ethical approach to cover both natural and man-made realities, putting the 'e' in an environmentalism that can deal successfully with the new challenges posed by our digital technologies and information society.

*ONLY Beginning-level book that introduces major Open Source Java tools and frameworks from scratch *Covers the most successful and prevalent open source and some lightweight tools and frameworks, like Spring, JBoss, Hibernate, Tapestry, Ant, and more *Shows how to build an enterprise application, end-to-end, integrating the different open source frameworks, including rapid enterprise Java application development

The timely book takes stock of the state of the art and future of electronic democracy, exploring the history and potential of e-democracy in global perspective. Analysing the digital divide, the role of the internet as a tool for political mobilisation, internet Voting and Voting Advice Applications, and other phenomena, this volume critically engages with the hope for more transparency and political participation through e-democracy.

Quickly and productively develop complex Spring applications and microservices out of the box, with minimal concern over things like configurations. This revised book will show you how to fully leverage the Spring Boot 2 technology and how to apply it to create enterprise ready applications that just work. It will also cover what's been added to the new Spring Boot 2 release, including Spring Framework 5 features like WebFlux, Security, Actuator and the new way to expose

Metrics through Micrometer framework, and more. This book is your authoritative hands-on practical guide for increasing your enterprise Java and cloud application productivity while decreasing development time. It's a no nonsense guide with case studies of increasing complexity throughout the book. The author, a senior solutions architect and Principal Technical instructor with Pivotal, the company behind the Spring Framework, shares his experience, insights and first-hand knowledge about how Spring Boot technology works and best practices. Pro Spring Boot 2 is an essential book for your Spring learning and reference library. What You Will Learn Configure and use Spring Boot Use non-functional requirements with Spring Boot Actuator Carry out web development with Spring Boot Persistence with JDBC, JPA and NoSQL Databases Messaging with JMS, RabbitMQ and WebSockets Test and deploy with Spring Boot A quick look at the Spring Cloud projects Microservices and deployment to the Cloud Extend Spring Boot by creating your own Spring Boot Starter and @Enable feature Who This Book Is For Experienced Spring and Java developers seeking increased productivity gains and decreased complexity and development time in their applications and software services. The agile, lightweight, open-source Spring Framework continues to be the de facto leading enterprise Java application development framework for today's Java programmers and developers. It works with other leading open-source, agile and lightweight Java technologies like Hibernate, Groovy, MyBatis, and more. Spring now also works with Java EE and JPA 2 as well. Pro Spring 3 updates the bestselling Pro Spring with the latest that the Spring Framework has to offer: version 3.1. At 1000 pages, this is by far the most comprehensive Spring book available, thoroughly exploring the power of Spring. With Pro Spring 3, you'll learn Spring basics and core topics, and gain access to the

authors' insights and real-world experiences with remoting, Hibernate, and EJB. Beyond the basics, you'll learn how to leverage the Spring Framework to build various tiers or parts of an enterprise Java application like transactions, the web and presentations tiers, deployment, and much more. A full sample application allows you to apply many of the technologies and techniques covered in this book and see how they work together. After reading this definitive book, you'll be armed with the power of Spring to build complex Spring applications, top to bottom.

*Readers will witness a real application being built with Spring framework, which is a very hot topic.

*Aspect Oriented Programming (AOP) is most up to date at time of book's release; AOP is a hot topic right now. *Will be endorsed by Open Source Spring Framework founder and head, Rod Johnson (plus a Foreward, name on cover, and/or possible Spring logo).

* First book on the market that covers building high-performance Java applications on the Oracle database—using the latest versions of both the Oracle database (10g) and the JDBC API (3.0). * Promotes and explains an "anti black box" approach to Oracle development complete with benchmark code) that will allow developers to write highly efficient, high performance Oracle JDBC applications. * A new book from the prestigious OakTable Press, which Apress will be strongly promoting and supporting throughout 2004. Master Spring basics and core topics, and share the

authors' insights and real-world experiences with remoting, Hibernate, and EJB. Beyond the basics, you'll learn how to leverage the Spring Framework to build the various tiers and parts of an enterprise Java application: transactions, web and presentation tiers, deployment, and much more. A full sample application allows you to apply many of the technologies and techniques covered in Pro Spring 5 and see how they work together. This book updates the perennial bestseller with the latest that the new Spring Framework 5 has to offer. Now in its fifth edition, this popular title is by far the most comprehensive and definitive treatment of Spring available. It covers the new functional web framework and interoperability with Java 9. After reading this definitive book, you'll be armed with the power of Spring to build complex Spring applications, top to bottom. The agile, lightweight, open-source Spring Framework continues to be the de facto leading enterprise Java application development framework for today's Java programmers and developers. It works with other leading open-source, agile, and lightweight Java technologies such as Hibernate, Groovy, MyBatis, and more. Spring now works with Java EE and JPA 2 as well. What You'll Learn Discover what's new in Spring Framework 5 Use the Spring Framework with Java 9 Master data access and transactions Work with the new functional web framework Create

microservices and other web services Who This Book Is For Experienced Java and enterprise Java developers and programmers. Some experience with Spring highly recommended.

For the third edition, the text has been thoroughly revised to keep pace with new concepts in oral medicine. The structure of the text has been clarified and made more practically useful, with references to etiology, clinical images, differential diagnosis, laboratory diagnostic tests, and therapy guidelines.

Also new in the third edition: four new chapters, and more than 240 new, exquisite illustrations of lesions and pathologic conditions affecting the oral cavity.

Many designers enjoy the interfaces seen in science fiction films and television shows. Freed from the rigorous constraints of designing for real users, sci-fi production designers develop blue-sky interfaces that are inspiring, humorous, and even instructive.

By carefully studying these “outsider” user interfaces, designers can derive lessons that make their real-world designs more cutting edge and successful.

Ensuring that members of society are healthy and reaching their full potential requires the prevention of disease and injury; the promotion of health and well-being; the assurance of conditions in which people can be healthy; and the provision of timely, effective, and coordinated health care. Achieving substantial and lasting improvements in population health will

require a concerted effort from all these entities, aligned with a common goal. The Health Resources and Services Administration (HRSA) and the Centers for Disease Control and Prevention (CDC) requested that the Institute of Medicine (IOM) examine the integration of primary care and public health. Primary Care and Public Health identifies the best examples of effective public health and primary care integration and the factors that promote and sustain these efforts, examines ways by which HRSA and CDC can use provisions of the Patient Protection and Affordable Care Act to promote the integration of primary care and public health, and discusses how HRSA-supported primary care systems and state and local public health departments can effectively integrate and coordinate to improve efforts directed at disease prevention. This report is essential for all health care centers and providers, state and local policy makers, educators, government agencies, and the public for learning how to integrate and improve population health. Work with all aspects of batch processing in a modern Java environment using a selection of Spring frameworks. This book provides up-to-date examples using the latest configuration techniques based on Java configuration and Spring Boot. The Definitive Guide to Spring Batch takes you from the “Hello, World!” of batch processing to complex scenarios demonstrating cloud native techniques for

developing batch applications to be run on modern platforms. Finally this book demonstrates how you can use areas of the Spring portfolio beyond just Spring Batch 4 to collaboratively develop mission-critical batch processes. You'll see how a new class of use cases and platforms has evolved to have an impact on batch-processing. Data science and big data have become prominent in modern IT and the use of batch processing to orchestrate workloads has become commonplace. The Definitive Guide to Spring Batch covers how running finite tasks on cloud infrastructure in a standardized way has changed where batch applications are run.

Additionally, you'll discover how Spring Batch 4 takes advantage of Java 9, Spring Framework 5, and the new Spring Boot 2 micro-framework. After reading this book, you'll be able to use Spring Boot to simplify the development of your own Spring projects, as well as take advantage of Spring Cloud Task and Spring Cloud Data Flow for added cloud native functionality. Includes a foreword by Dave Syer, Spring Batch project founder. What You'll Learn Discover what is new in Spring Batch 4 Carry out finite batch processing in the cloud using the Spring Batch project Understand the newest configuration techniques based on Java configuration and Spring Boot using practical examples Master batch processing in complex scenarios including in the cloud Develop batch

applications to be run on modern platforms Use areas of the Spring portfolio beyond Spring Batch to develop mission-critical batch processes Who This Book Is For Experienced Java and Spring coders new to the Spring Batch platform. This definitive book will be useful in allowing even experienced Spring Batch users and developers to maximize the Spring Batch tool.

* 1st and only book to market on the open source Spring MVC and Web Flows, positioned to become the new "Struts." * Will be the only authoritative solution, by the Spring MVC and Spring Web Flows project leads themselves. * Two markets for this book. 1) Ex-patriots from the Struts world who have developed numerous web applications, but are looking for more and willing to take the initiative to experiment with new solutions; and 2) early adopter web developers into Web Flow, which has created a lot of buzz and will generate interest around this book as well as Spring MVC.

Americans often complain about the operation of their government, but scholars have never developed a complete picture of people's preferred type of government. In this provocative and timely book, Hibbing and Theiss-Morse, employing an original national survey and focus groups, report the governmental procedures Americans desire. Contrary to the prevailing view that people want greater involvement in politics, most citizens do not

care about most policies and therefore are content to turn over decision-making authority to someone else. People's wish for the political system is that decision makers be empathetic and, especially, non-self-interested, not that they be responsive and accountable to the people's largely nonexistent policy preferences or, even worse, that the people be obligated to participate directly in decision making. Hibbing and Theiss-Morse conclude by cautioning communitarians, direct democrats, social capitalists, deliberation theorists, and all those who think that greater citizen involvement is the solution to society's problems.

The inspiring, influential senator and bestselling author mixes vivid personal stories with a passionate plea for political transformation. Elizabeth Warren is a beacon for everyone who believes that real change can improve the lives of all Americans. Committed, fearless, and famously persistent, she brings her best game to every battle she wages. In *Persist*, Warren writes about six perspectives that have influenced her life and advocacy. She's a mother who learned from wrenching personal experience why child care is so essential. She's a teacher who has known since grade school the value of a good and affordable education. She's a planner who understands that every complex problem requires a comprehensive response. She's a fighter who discovered the hard way that nobody gives up power

willingly. She's a learner who thinks, listens, and works to fight racism in America. And she's a woman who has proven over and over that women are just as capable as men. Candid and compelling, *Persist* is both a deeply personal book and a powerful call to action. Elizabeth Warren—one of our nation's most visionary leaders—will inspire everyone to believe that if we're willing to fight for it, profound change is well within our reach.

Today, American "rugged individualism" is in a fight for its life on two battlegrounds: in the policy realm and in the intellectual world of ideas that may lead to new policies. In this book, the authors look at the political context in which rugged individualism flourishes or declines and offer a balanced assessment of its future prospects. They outline its path from its founding—marked by the Declaration of Independence—to today, focusing on different periods in our history when rugged individualism was thriving or was under attack. The authors ultimately look with some optimism toward new frontiers of the twenty-first century that may nourish rugged individualism. They assert that we cannot tip the delicate balance between equality and liberty so heavily in favor of equality that there is no liberty left for individual Americans to enjoy.

An Introduction to Political Communication explores the relationship between politics, the media and democracy in the UK, the USA and other

contemporary societies. Brian McNair examines how politicians, trade unions, pressure groups, non-governmental organizations and terrorist organizations make use of the media. Separate chapters look at political media and their effects, the work of political advertising, marketing and public relations and the communication practices of organizations at all levels, from grassroots campaigning through to governments and international bodies. Recent developments covered in the new edition include: * the re-election of New Labour in 2001 * the changes in government information and communication policy introduced by the Blair administration since 1997 * the 2000 election of George W. Bush in the United States * the NATO interventions in Kosovo and the former Yugoslavia * the implications for international political communication of September 11 * the emergence of Al-Quida and the war on terror.

Pro Spring 2 is the perfect, simple answer for your lightweight, alternative Java EE development needs! Put simply, this book brings J2EE/Java EE "down to earth." Without the hassles of using the EJB 3 specification and similar, you can build lighter, better-performing agile enterprise Java-based applications using Spring Framework 2. The Spring framework can also integrate other noteworthy and hot open source tools like Apache Struts, Hibernate, OpenJPA, GlassFish, and many more. You'll work

through a real, scalable enterprise application and build it from the ground up with Spring, using all the multiple web views and frameworks.

Includes, beginning Sept. 15, 1954 (and on the 15th of each month, Sept.-May) a special section: School library journal, ISSN 0000-0035, (called Junior libraries, 1954-May 1961). Also issued separately.

Threads are a fundamental part of the Java platform.

As multicore processors become the norm, using concurrency effectively becomes essential for building high-performance applications. Java SE 5 and 6 are a huge step forward for the development of concurrent applications, with improvements to the Java Virtual Machine to support high-performance, highly scalable concurrent classes and a rich set of new concurrency building blocks. In Java

Concurrency in Practice , the creators of these new facilities explain not only how they work and how to use them, but also the motivation and design patterns behind them. However, developing, testing, and debugging multithreaded programs can still be very difficult; it is all too easy to create concurrent programs that appear to work, but fail when it matters most: in production, under heavy load. Java Concurrency in Practice arms readers with both the theoretical underpinnings and concrete techniques for building reliable, scalable, maintainable concurrent applications. Rather than simply offering an inventory of concurrency APIs and mechanisms,

it provides design rules, patterns, and mental models that make it easier to build concurrent programs that are both correct and performant. This book covers:

- Basic concepts of concurrency and thread safety
- Techniques for building and composing thread-safe classes
- Using the concurrency building blocks in `java.util.concurrent`
- Performance optimization dos and don'ts
- Testing concurrent programs
- Advanced topics such as atomic variables, nonblocking algorithms, and the Java Memory Model
- Create Internet-scale applications using Oracle's Coherence
- high-performance data grid with this book and eBook

Presents a collection of articles covering such topics as web services, DSLs, Shale, legacy code, and CSS.

This is a book that's long overdue: One that provides information that has never before been published, compiled or analyzed in a way that's designed to help fighters. This is a guide to the science of kicking and punching that can settle the debates about which techniques are the most effective and why. It will help a fighter to fight, an instructor to teach and martial artists to advance by working things out for themselves. There is no magic involved in the martial arts. The force and power that is displayed by an expert fighter is the consequence of rigorous training in the accurate application of physical laws. Understanding how to use these laws of physics to

create massive impact forces will provide a personal insight into the practice of correct technique and form. This unique piece of work will act as a technical reference that provides the facts and figures that fighters seek, including records of the maximum force and speed achieved by some of the best present day warriors, helping to answer many of the most difficult questions in the martial arts.

The most comprehensive single-volume photographic guide to Europe's birds ever produced--from the authors of the acclaimed Britain's Birds Covering more than 900 species, and illustrated with over 3,800 photographs, this is the most comprehensive, authoritative and ambitious single-volume photographic guide to Europe's birds ever produced. Detailed descriptions provide the information necessary to identify the birds of Europe in all their plumages--male, female, breeding, non-breeding, adult and immatures, as well as distinctive subspecies--yet the book is easy-to-use, practical and accessible. Birdwatchers of any ability will benefit from the clear text, details on range, status and habitat, and an unrivalled selection of photographs. Chosen to be as naturalistic and informative as possible, the images are also stunning to look at, making this a beautiful book to enjoy, as well as an up-to-date and essential source of identification knowledge. Europe's Birds is produced by the same team that created Britain's

Birds, which has been described as "without doubt the best photo guide on the market" (Andy Stoddart, Rare Bird Alert). The authors include top-class wildlife photographers, writers and editors, and an imaginative, highly skilled designer. All are experienced birdwatchers themselves, who know what is needed and what is useful in an identification guide for birdwatchers living or travelling in Europe. Covers all 914 species ever recorded in Europe, including established introductions Describes all distinctive plumages and subspecies Provides details of vocalizations, flight action and favoured habitats Features more than 3,800 photographs, including comparison pages of birds in flight Includes 540 maps, prepared in association with BirdLife International Enables direct comparison of similar species

Pro Spring updates the perennial bestseller with the latest that the Spring Framework 4 has to offer. Now in its fourth edition, this popular book is by far the most comprehensive and definitive treatment of Spring available. With Pro Spring, you'll learn Spring basics and core topics, and share the authors' insights and real-world experiences with remoting, Hibernate, and EJB. Beyond the basics, you'll learn how to leverage the Spring Framework to build the various tiers or parts of an enterprise Java application: transactions, web and presentation tiers, deployment, and much more. A full sample

application allows you to apply many of the technologies and techniques covered in this book and see how they work together. The agile, lightweight, open-source Spring Framework continues to be the de facto leading enterprise Java application development framework for today's Java programmers and developers. It works with other leading open-source, agile, and lightweight Java technologies such as Hibernate, Groovy, MyBatis, and more. Spring now works with Java EE and JPA 2 as well. After reading this definitive book, you'll be armed with the power of Spring to build complex Spring applications, top to bottom.

The SourceForge open source lightweight Wicket project is a Java web application framework that takes simplicity, separation of concerns and ease of development to a new level. This book takes a no-nonsense approach, jumping directly to the practical aspects of Wicket. Chapters include Developing Wicket Forms; Validation with Wicket; Developing a Simple Application; Providing a Common Layout; Spring Integration; Wicket Localization; Wicket and Ajax; Custom Components and Wicket Extensions, and Unit Testing. Pro Wicket gets you quickly up and running with the framework and the attractively simple 'wicket-way' of addressing web development requirements.

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