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Development A J2ee Example  
Experts Voice

# *Test Driven Development A J2ee Example Experts Voice*

This book constitutes the thoroughly refereed post-proceedings of the international conference NetObjectDays 2002, held in Erfurt, Germany, in October 2002. The 26 revised full papers presented were carefully selected during two rounds of reviewing and revision. The papers are organized in topical sections on embedded and distributed systems; components and MDA; Java technology; Web services; aspect-oriented software design; agents and

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mobility; software product lines; synchronization; testing, refactoring, and CASE tools.

Software is the essential enabling means for science and the new economy. It helps us to create a more reliable, flexible and robust society. But software often falls short of our expectations. Current methodologies, tools, and techniques remain expensive and are not yet sufficiently reliable, while many promising approaches have proved to be no more than case-by-case oriented methods. This book contains extensively reviewed papers from the thirteenth International Conference on New Trends in software Methodology, Tools and Techniques (SoMeT\_14), held in Langkawi, Malaysia, in September 2014. The conference

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provides an opportunity for scholars from the international research community to discuss and share research experiences of new software methodologies and techniques, and the contributions presented here address issues ranging from research practices and techniques and methodologies to proposing and reporting solutions for global world business. The emphasis has been on human-centric software methodologies, end-user development techniques and emotional reasoning, for an optimally harmonized performance between the design tool and the user. Topics covered include the handling of cognitive issues in software development to adapt it to the user's mental state and intelligent software design in software utilizing new aspects

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on conceptual ontology and semantics reflected on knowledge base system models. This book provides an opportunity for the software science community to show where we are today and where the future may take us. IT industry offers lucrative job opportunities not only for the IT graduates but also for all those non-IT background students who thrive to build their career in this field. This book, now in its second edition, appries the reader with every minute detail of the IT concepts and serves as a self-help guide for the graduates and students appearing for their placement tests and interviews in the final year. The book begins with the details of recruitment process and focuses on tackling difficult HR interview

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questions, resume building tips and provides sample resume which will equip the students for the interviews and hone their overall personality. The testimonials by the industry experts and academicians succinctly tell about the expectations of industry employers from the new recruits. The text in the middle chapters elaborates the programming concepts of C, C++ and Java as well as the concepts related to database, software engineering, operating systems, networking and DOT NET in great detail. The last chapter of the book presents a number of topics relating to general computer science aptitude. NEW TO THE SECOND EDITION • Numerous sections and examples have been included in chapters on OOP

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Concepts—Classes and Objects, Inheritance in C++, Polymorphism, Exception Handling and Templates in C++ and Operating System Concepts. • Completely revamped text in the chapter on Database Concepts. • Several MCQs from the latest interviews have now been incorporated into the respective chapters. • Five sample test papers with solutions are provided for practice. **KEY FEATURES** • Includes questions gathered from the interviews conducted by companies such as Virtusa, TCS, IBM, DELL, HCL, Aon Hewitt, Convergys, CSC and Wipro. • Serves as a complete guide containing basic programming concepts helpful for non-IT background students as well. **REVIEWER'S COMMENT** It was a

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dream come true for me when I got placed in CISCO SYSTEMS with a package of 10.7 lakhs. I am immensely thankful to Ela Kashyap for writing such an amazing book. It has all the requisite information required to crack any interview, as it succinctly covers all the important topics one needs to know for IT interviews. The book has helped me to crack five rounds of interview. So, I would like to recommend this book to all the engineering students.

"Vivek Kale's Creating Smart Enterprises goes smack-dab at the heart of harnessing technology for competing in today's chaotic digital era. Actually, for him, it's S<sup>M</sup>A<sup>C</sup>T-dab: S<sup>M</sup>A<sup>C</sup>T (Social media, Mobile, Analytics and big data, Cloud computing, and internet of Things) technologies. This book is

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required reading for those that want to stay relevant and win, and optional for those that don't." —Peter Fingar, Author of Cognitive Computing and business technology consultant Creating Smart Enterprises unravels the mystery of social media, mobile, analytics and big data, cloud, and Internet of Things (SMACT) computing and explains how it can transform the operating context of business enterprises. It provides a clear understanding of what SMACT really means, what it can do for smart enterprises, and application areas where it is practical to use them. All IT professionals who are involved with any aspect of a SMACT computing project will profit by using this book as a roadmap to make a more meaningful contribution to the success of their



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computing initiatives. This pragmatic book: Introduces the VUCA (volatility, uncertainty, complexity, and ambiguity) business ecosystem confronted by the businesses today. Describes the challenges of defining business and IT strategies and of aligning them as well as their impact on enterprise governance. Provides a very wide treatment of the various components of SMACT computing, including the Internet of Things (IoT) and its constituting technologies like RFID, wireless networks, sensors, and wireless sensor networks (WSNs). This book addresses the key differentiator of SMACT computing environments and solutions that combine the power of an elastic infrastructure with analytics. The SMACT environment is cloud-

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based and inherently mobile.

Information management processes can analyze and discern recurring patterns in colossal pools of operational and transactional data. Analytics, big data, and IoT computing leverage and transform these data patterns to help create successful, smart enterprises.

Creating Smart Enterprises

From Distributed Computing to  
Cloudware Applications

Beginning Google Web Toolkit

Pro .NET 2.0 Extreme Programming  
Software Architecture Design Patterns  
in Java

Test Driven

How Tests Drive the Code

What is this book about? Expert One-  
on-One J2EE Development without  
EJB shows Javadevelopers and

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architects how to build robust J2EE applications without having to use Enterprise JavaBeans (EJB). This practical, code-intensive guide provides best practices for using simpler and more effective methods and tools, including JavaServer pages, servlets, and lightweight frameworks. What does this book cover? The book begins by examining the limits of EJB technology— what it does well and not so well. Then the authors guide you through alternatives to EJB that you can use to create higher quality applications faster and at lower cost — both agile methods as well as new classes of tools that have evolved over the past few years. They then dive into the details, showing solutions based on the lightweight framework they pioneered on SourceForge — one of the most innovative open source

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communities. They demonstrate how to leverage practical techniques and tools, including the popular open source Spring Framework and Hibernate. This book also guides you through productive solutions to core problems, such as transaction management, persistence, remoting, and Web tier design. You will examine how these alternatives affect testing, performance, and scalability, and discover how lightweight architectures can slash time and effort on many projects. What will you learn from this book? Here are some details on what you'll find in this book: How to find the simplest and most maintainable architecture for your application Effective transaction management without EJB How to solve common problems in enterprise software development using AOP and

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Inversion of Control Web tier design and the place of the Web tier in a well-designed J2EE application Effective data access techniques for J2EE applications with JDBC, Hibernate, and JDO How to leverage open source products to improve productivity and reduce custom coding How to design for optimal performance and scalability A comprehensive, hands-on guide on unit testing framework for Java programming language About This Book In-depth coverage of Jupiter, the new programming and extension model provided by JUnit 5 Integration of JUnit 5 with other frameworks such as Mockito, Spring, Selenium, Cucumber, and Docker Best practices for writing meaningful Jupiter test cases Who This Book Is For This book is for Java software engineers and testers. If you are a Java developer

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who is keen on improving the quality of your code and building world class applications then this book is for you.

Prior experience of the concepts of automated testing will be helpful. What

You Will Learn The importance of software testing and its impact on software quality The options available for testing Java applications The

architecture, features and extension model of JUnit 5 Writing test cases using the Jupiter programming model

How to use the latest and advanced features of JUnit 5 Integrating JUnit 5 with existing third-party frameworks

Best practices for writing meaningful JUnit 5 test cases Managing software testing activities in a living software

project In Detail When building an application it is of utmost importance to have clean code, a productive

environment and efficient systems in

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place. Having automated unit testing in place helps developers to achieve these goals. The JUnit testing framework is a popular choice among Java developers and has recently released a major version update with JUnit 5. This book shows you how to make use of the power of JUnit 5 to write better software. The book begins with an introduction to software quality and software testing. After that, you will see an in-depth analysis of all the features of Jupiter, the new programming and extension model provided by JUnit 5. You will learn how to integrate JUnit 5 with other frameworks such as Mockito, Spring, Selenium, Cucumber, and Docker. After the technical features of JUnit 5, the final part of this book will train you for the daily work of a software tester. You will learn best practices for writing

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meaningful tests. Finally, you will learn how software testing fits into the overall software development process, and sits alongside continuous integration, defect tracking, and test reporting. Style and approach The book offers definitive and comprehensive coverage of all the Unit testing concepts with JUnit and its features using several real world examples so that readers can put their learning to practice almost immediately. This book is structured in three parts: Software testing foundations (software quality and Java testing) JUnit 5 in depth (programming and extension model of JUnit 5) Software testing in practice (how to write and manage JUnit 5 tests) Write clean code that works with the help of this groundbreaking software method. Example-driven teaching is



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the basis of Beck's step-by-step instruction that will have readers using TDD to further their projects.

Solve real world problems using  
Regex in Java. About This Book  
Discover regular expressions and how they work Implement regular expressions with Java to your code base Learn to use regular expressions in emails, URLs, paths, and IP addresses Who This Book Is For This book is for Java developers who would like to understand and use regular expressions. A basic knowledge of Java is assumed. What You Will Learn Understand the semantics, rules, and core concepts of writing Java code involving regular expressions Learn about the `java.util.Regex` package using the `Pattern` class, `Matcher` class, code snippets, and more Match and capture text in regex and use back-

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references to the captured groups  
Explore Regex using Java String  
methods and regex capabilities in the  
Java Scanner API Use zero-width  
assertions and lookarounds in regex  
Test and optimize a poorly performing  
regex and various other performance  
tips In Detail Regular expressions are  
a powerful tool in the programmer's  
toolbox and allow pattern matching.  
They are also used for manipulating  
text and data. This book will provide  
you with the know-how (and practical  
examples) to solve real-world  
problems using regex in Java. You will  
begin by discovering what regular  
expressions are and how they work  
with Java. This easy-to-follow guide is  
a great place from which to familiarize  
yourself with the core concepts of  
regular expressions and to master its  
implementation with the features of

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Java 9. You will learn how to match, extract, and transform text by matching specific words, characters, and patterns. You will learn when and where to apply the methods for finding patterns in digits, letters, Unicode characters, and string literals. Going forward, you will learn to use zero-length assertions and lookarounds, parsing the source code, and processing the log files. Finally, you will master tips, tricks, and best practices in regex with Java. Style and approach This book will take readers through this learning journey using simple, easy-to-understand, step-by-step instructions and hands-on examples at every stage. with XDoclet, JUnit, WebWork, Hibernate

The J2EE Tutorial

Test-driven Development

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Experts Voice

Agile Java™

Spring Live

An Adaptive Foundation for Enterprise  
Applications

Java 9 Regular Expressions

\* Explains current Extreme  
Programming practices now that  
.NET 1.1 has matured; also  
explains how new features of .NET  
2.0 impact Extreme Programming  
techniques. \* Provides real-world  
examples of Extreme Programming  
practice, by examining the  
complete release of an example  
project, so developers can learn  
practical details and principles. \*  
Shows developers how to use test-  
first development techniques for  
web-based applications using the  
NUnit testing framework within the

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Visual Studio .NET IDE, plus critical coverage of Nant, Net Mock and CruiseControl.NET.

The Spring Framework is a major open source application development framework that makes Java/J2EE(TM) development easier and more productive. This book shows you not only what Spring can do but why, explaining its functionality and motivation to help you use all parts of the framework to develop successful applications. You will be guided through all the Spring features and see how they form a coherent whole. In turn, this will help you understand the rationale for Spring's approach, when to use Spring, and how to follow best practices. All this is

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illustrated with a complete sample application. When you finish the book, you will be well equipped to use Spring effectively in everything from simple Web applications to complex enterprise applications. What you will learn from this book \*

- \* The core Inversion of Control container and the concept of Dependency Injection
- \* Spring's Aspect Oriented Programming (AOP) framework and why AOP is important in J2EE development
- \* How to use Spring's programmatic and declarative transaction management services effectively
- \* Ways to access data using Spring's JDBC functionality, iBATIS SQL Maps, Hibernate, and other O/R mapping frameworks
- \* Spring

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services for accessing and implementing EJBs \* Spring's remoting framework Who this book is for This book is for Java/J2EE architects and developers who want to gain a deeper knowledge of the Spring Framework and use it effectively. Wrox Professional guides are planned and written by working programmers to meet the real-world needs of programmers, developers, and IT professionals. Focused and relevant, they address the issues technology professionals face every day. They provide examples, practical solutions, and expert education in new technologies, all designed to help programmers do a better job. In test driven development, you first

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write an executable test of what your application code must do. Only then do you write the code itself and, with the test spurring you on, you improve your design. In acceptance test driven development (ATDD), you use the same technique to implement product features, benefiting from iterative development, rapid feedback cycles, and better-defined requirements. TDD and its supporting tools and techniques lead to better software faster. Test Driven brings under one cover practical TDD techniques distilled from several years of community experience. With examples in Java and the Java EE environment, it explores both the techniques and



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the mindset of TDD and ATDD. It uses carefully chosen examples to illustrate TDD tools and design patterns, not in the abstract but concretely in the context of the technologies you face at work. It is accessible to TDD beginners, and it offers effective and less well-known techniques to older TDD hands. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Learn hands-on to test drive Java code How to avoid common TDD adoption pitfalls Acceptance test driven development and the Fit framework How to test Java EE components- Servlets, JSPs, and

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SpringControllers Tough issues like multithreaded programs and data access code

Software engineering and computer science students need a resource that explains how to apply design patterns at the enterprise level, allowing them to design and implement systems of high stability and quality. *Software Architecture Design Patterns in Java* is a detailed explanation of how to apply design patterns and develop software architectures. It provides in-depth examples in Java, and guides students by detailing when, why, and how to use specific patterns. This textbook presents 42 design patterns, including 23 GoF patterns. Categories include: Basic,

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Creational, Collectional, Structural, Behavioral, and Concurrency, with multiple examples for each. The discussion of each pattern includes an example implemented in Java. The source code for all examples is found on a companion Web site. The author explains the content so that it is easy to understand, and each pattern discussion includes Practice Questions to aid instructors. The textbook concludes with a case study that pulls several patterns together to demonstrate how patterns are not applied in isolation, but collaborate within domains to solve complicated problems.

The Guide for Business and  
Technology Managers

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## Crafting Code with Test-Driven Development

Test Driven Software Development  
Java Open Source Programming  
Professional Java Development  
with the Spring Framework  
JUnit Recipes

By taking you through the development of a real web application from beginning to end, the second edition of this hands-on guide demonstrates the practical advantages of test-driven development (TDD) with Python. You'll learn how to write and run tests before building each part of your app, and then develop the minimum amount of code required to pass those tests. The result? Clean code that works. In the process, you'll learn the basics of Django, Selenium, Git, jQuery, and Mock, along with current web

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development techniques. If you're ready to take your Python skills to the next level, this book—updated for Python 3.6—clearly demonstrates how TDD encourages simple designs and inspires confidence. Dive into the TDD workflow, including the unit test/code cycle and refactoring Use unit tests for classes and functions, and functional tests for user interactions within the browser Learn when and how to use mock objects, and the pros and cons of isolated vs. integrated tests Test and automate your deployments with a staging server Apply tests to the third-party plugins you integrate into your site Run tests automatically by using a Continuous Integration environment Use TDD to build a REST API with a front-end Ajax interface

Master Java 5.0 and TDD Together: Build More Robust, Professional Software  
Master Java 5.0, object-oriented design,

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and Test-Driven Development (TDD) by learning them together. Agile Java weaves all three into a single coherent approach to building professional, robust software systems. Jeff Langr shows exactly how Java and TDD integrate throughout the entire development lifecycle, helping you leverage today's fastest, most efficient development techniques from the very outset. Langr writes for every programmer, even those with little or no experience with Java, object-oriented development, or agile methods. He shows how to translate oral requirements into practical tests, and then how to use those tests to create reliable, high-performance Java code that solves real problems. Agile Java doesn't just teach the core features of the Java language: it presents coded test examples for each of them. This TDD-centered approach doesn't just lead to better code: it provides powerful feedback

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that will help you learn Java far more rapidly. The use of TDD as a learning mechanism is a landmark departure from conventional teaching techniques. Presents an expert overview of TDD and agile programming techniques from the Java developer's perspective Brings together practical best practices for Java, TDD, and OO design Walks through setting up Java 5.0 and writing your first program Covers all the basics, including strings, packages, and more Simplifies object-oriented concepts, including classes, interfaces, polymorphism, and inheritance Contains detailed chapters on exceptions and logging, math, I/O, reflection, multithreading, and Swing Offers seamlessly-integrated explanations of Java 5.0's key innovations, from generics to annotations Shows how TDD impacts system design, and vice versa Complements any agile or traditional

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methodology, including Extreme Programming (XP)

This book is a hands-on guide, full of practical examples to illustrate the concepts of Test Driven Development. If you are a developer who wants to develop software following Test Driven Development using Mockito and leveraging various Mockito features, this book is ideal for you. You don't need prior knowledge of TDD, Mockito, or JUnit. It is ideal for developers, who have some experience in Java application development as well as a basic knowledge of unit testing, but it covers the basic fundamentals of TDD and JUnit testing to get you acquainted with these concepts before delving into them.

Within the framework of Acceptance Test-Driven-Development (ATDD), customers, developers, and testers collaborate to create acceptance tests that thoroughly



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describe how software should work from the customer's viewpoint. By tightening the links between customers and agile teams, ATDD can significantly improve both software quality and developer productivity. This is the first start-to-finish, real-world guide to ATDD for every agile project participant. Leading agile consultant Ken Pugh begins with a dialogue among a customer, developer, and tester, explaining the "what, why, where, when, and how" of ATDD and illuminating the experience of participating in it. Next, Pugh presents a practical, complete reference to each facet of ATDD, from creating simple tests to evaluating their results. He concludes with five diverse case studies, each identifying a realistic set of problems and challenges with proven solutions. Coverage includes

- How to develop software with fully testable requirements
- How to simplify

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and componentize tests and use them to identify missing logic

- How to test user interfaces, service implementations, and other tricky elements of a software system
- How to identify requirements that are best handled outside software
- How to present test results, evaluate them, and use them to assess a project's overall progress
- How to build acceptance tests that are mutually beneficial for development organizations and customers
- How to scale ATDD to large projects

An Empirical Evaluation of Agile Practice  
New Trends in Software Methodologies,  
Tools and Techniques

Practical Methods for Programmer Testing  
Test Driven Development with Mockito  
Guide to Cloud Computing for Business  
and Technology Managers

Tackling Complexity in the Heart of  
Software

Leveraging Cloud, Big Data, Web, Social

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Media, Mobile and IoT Technologies  
Latest advancements, attractive remuneration packages, and liberal work-stations are some of the features which are captivating students towards the ever-booming IT sector. Because of its popularity and demand, the competition to get into the sector has become equally tougher for the students (new entrants). Keeping this aspect in view, the book is designed as a perfect guide for the students who want to get into the field of IT. Serving a self-help book for the graduates and students appearing for their placement tests and

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interviews in the final year, this book helps the students to brush-up the basic concepts of computer science and IT. It also focuses on grooming skills (like what to do and what not to do on the Interview day), writing resume, and how to answer HR questions. Testimonials by the industry experts are incorporated to get students acquainted with the company processes and work culture.

Key features

- Contains over 1200 MCQs for practice.
- Questions are taken from the interviews/tests conducted by top IT companies of India and abroad like CSC, IBM, Infosys,

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Dell, HCL, Wipro, Virtusa, Aon Hewitt, Convergys, and so on • Answers to the MCQs are provided with their detailed explanations • All IT processes are covered in detail

"The definitive guide, not just for JUnit, but unit testing in general." ---Tyson S. Maxwell, Raytheon --

Test Driven brings under one cover practical TDD techniques distilled from several years of community experience. With examples in Java and the Java EE environment, it explores both the techniques and the mindset of TDD and ATDD. Provides example programs and

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their source code to explore concepts and technologies including Enterprise JavaBeans, JavaServer Pages, Java Message Service, and Java Naming and Directory Interface.

Mastering Unit Testing Using Mockito and JUnit

Technical Aptitude For Interviews: Computer Science And It

Practical TDD and Acceptance TDD for Java Developers

Objects, Components, Architectures, Services, and Applications for a Networked World

Proceedings of the Thirteenth

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SoMeT\_14

Big Data Computing

Test-Driven Development

When testing becomes a developer's habit good things tend to happen--good productivity, good code, and good job satisfaction. If you want some of that, there's no better way to start your testing habit, nor to continue feeding it, than with "" JUnit Recipes, "" In this book you will find one hundred and thirty-seven solutions to a range of problems, from simple to complex, selected for you by an experienced developer and master tester.

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Each recipe follows the same organization giving you the problem and its background before discussing your options in solving it. JUnit - the unit testing framework for Java - is simple to use, but some code can be tricky to test. When you're facing such code you will be glad to have this book. It is a how-to reference full of practical advice on all issues of testing, from how to name your test case classes to how to test complicated J2EE applications. Its valuable advice includes side matters that can have a big payoff,



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like how to organize your test data or how to manage expensive test resources.

What's Inside: - Getting started with JUnit - Recipes for: servlets JSPs EJBs Database code much more - Difficult-to-test designs, and how to fix them - How testing saves time - Choose a JUnit extension: HTMLUnit XMLUnit ServletUnit EasyMock and more!

This report aims at providing software developers with an understanding of the test driven software development practices and methods in the context of Java and J2EE

"(WEB\_19, 2005)" based technologies. The study is presented in two main stages. The first stage describes the evolution of software verification and validation techniques and how they have been applied throughout the software development lifecycle, progressing upto Agile Software Development practices and Test Driven Development. The second stage of the study presents a collection of patterns and methods for applying test driven development in real world scenarios. These

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techniques also aim to show how test driven development forces the classes and responsibilities to be decoupled and highly cohesive, leading to a better object oriented design and high quality code.

Explore the new way of building and maintaining test cases with Java test driven development (TDD) using JUnit 5. This book doesn't just talk about the new concepts, it shows you ways of applying them in TDD and Java 8 to continuously deliver code that excels in all metrics. Unit testing and test

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driven development have now become part of every developer's skill set. For Java developers, the most popular testing tool has been JUnit, and JUnit 5 is built using the latest features of Java. With Java Unit Testing with JUnit 5, you'll master these new features, including method parameters, extensions, assertions and assumptions, and dynamic tests. You'll also see how to write clean tests with less code. This book is a departure from using older practices and presents new ways of performing tests, building

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assertions, and injecting dependencies. What You Will Learn Write tests the JUnit 5 way Run your tests from within your IDE Integrate tests with your build and static analysis tools Migrate from JUnit 4 to JUnit 5 Who This Book Is For Java developers both with and without any prior unit testing experience.

This book unravels the mystery of Big Data computing and its power to transform business operations. The approach it uses will be helpful to any professional who must

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present a case for realizing Big Data computing solutions or to those who could be involved in a Big Data computing project. It provides a framework that enables business and technical managers to make optimal decisions necessary for the successful migration to Big Data computing environments and applications within their organizations.

Mastering Software Testing  
with JUnit 5

Enterprise Data Workflows  
with Cascading

The Art of Agile

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Development

Test-Driven Development in  
Microsoft .NET

A Guide for Business and  
Technology Managers

Test-Driven Development  
with Python

International Conference  
NetObjectDays, NODe 2002,  
Erfurt, Germany, October  
7-10, 2002, Revised Papers

Describes ways to  
incorporate domain modeling  
into software development.  
Discover how to develop full-  
scale J2EE™ applications  
quickly and efficiently  
using the best Open Source  
tools Written by leading  
authorities in the field,

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this book shows you how to leverage a suite of best-of-breed Open Source development tools to take the pain out of J2EE and build a complete Web-based application. You'll combine these tools to actually reduce the points of failure in your application, while increasing overall system stability and robustness. Along with the tools introduced here, you'll develop the PetSoar application, which follows the PetStore application used by Sun Microsystems to demonstrate features of J2EE. With PetSoar, the authors focus on developing a maintainable and flexible



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application, rather than showcasing the end result, so that you can apply the material in your own projects. In addition, the authors provide methods for utilizing Open Source software components for each stage of the development process. The Open Source products covered include: \*

- \* Hibernate to aid with simple, flexible, and speedy transparent object persistence
- \* OpenSymphony WebWork to allow for pluggable view technologies and extensible configuration
- \* JUnit and Mock Objects to assist with rapid and robust unit testing
- \* XDoclet to assist with generating code

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and configuration files automatically \* Jakarta Lucene to add Google-style smart search capabilities to data stores \* OpenSymphony SiteMesh to aid in the creation of large sites with a common look and feel \* OpenSymphony OSCache to easily cache slow dynamic sections of Web sites resulting in faster-loading pages

With the clarity and precision intrinsic to the Test-Driven Development (TDD) process itself, experts James Newkirk and Alexei Vorontsov demonstrate how to implement TDD principles and practices to drive lean, efficient

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coding—and better design. The best way to understand TDD is to see it in action, and Newkirk and Vorontsov walk step by step through TDD and refactoring in an n-tier, .NET-connected solution. And, as members of the development team for NUnit, a leading unit-testing framework for Microsoft .NET, the authors can offer matchless insights on testing in this environment—ultimately making their expertise your own. Test first—and drive ambiguity out of the development process: Document your code with tests, rather than paper Use test lists to generate

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explicit requirements and completion criteria  
Refactor—and improve the design of existing code  
Alternate programmer tests with customer tests  
Change how you build UI code—a thin layer on top of rigorously tested code  
Use tests to make small, incremental changes—and minimize the debugging process  
Deliver software that's verifiable, reliable, and robust  
A practical and easy-to-follow, yet comprehensive, guide to learning advanced JUnit testing. Each topic is explained and placed in context, and for the more inquisitive, there are more details of the concepts

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used. This book is for you if you are a developer with some experience in Java application development as well as a basic knowledge of JUnit testing. But for those whose skill set is void of any prior experience with JUnit testing, the book also covers basic fundamentals to get you acquainted with the concepts before putting them into practise.

Test Driven Development with  
JUnit 5

JUnit in Action

Java Unit Testing with JUnit  
5

Implementing SAP® CRM

From Novice to Professional  
Streamlined Enterprise Data  
Management and Analysis

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There is an easier way to build Hadoop applications. With this hands-on book, you'll learn how to use Cascading, the open source abstraction framework for Hadoop that lets you easily create and manage powerful enterprise-grade data processing applications—without having to learn the intricacies of MapReduce. Working with sample apps based on Java and other JVM languages, you'll quickly learn Cascading's streamlined approach to data processing, data filtering, and workflow optimization. This book demonstrates how this framework can help your

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business extract meaningful information from large amounts of distributed data. Start working on Cascading example projects right away Model and analyze unstructured data in any format, from any source Build and test applications with familiar constructs and reusable components Work with the Scalding and Cascalog Domain-Specific Languages Easily deploy applications to Hadoop, regardless of cluster location or data size Build workflows that integrate several big data frameworks and processes Explore common use cases for Cascading, including features and tools that support them

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Examine a case study that uses a dataset from the Open Data Initiative

For those considering Extreme Programming, this book provides no-nonsense advice on agile planning, development, delivery, and management taken from the authors' many years of experience. While plenty of books address the what and why of agile development, very few offer the information users can apply directly.

The J2EE developer's practical introduction and cookbook to cost saving software engineering solutions.

This is a brilliantly practical work that lets the reader experience a



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real-world scalable agile enterprise Java-based application being built from the ground up using the latest Spring 2.x kit available. The open source agile lightweight Spring (meta) Framework 2.x is by far the leading innovative force and "lightning rod" that's driving today's Java industry. Spring has time and time again proven itself in real-world highly scalable enterprise settings such as banks and other financial institutions. This book is the only authoritative Spring 2 authored book, as it has been written by team members of Interface21, the group that lead the Spring Foundation and its growing

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A J2EE Example

Test Driven: Practical Test  
Driven Development And  
Acceptance Tdd For Java  
Developers

Domain-driven Design

Expert One-on-One J2EE

Development without EJB

Lean-Agile Acceptance Test-  
Driven-Development

Computer Science and IT

Comprehensive guide to develop  
high quality Java applications

Software testing is indispensable

and is one of the most discussed  
topics in software development

today. Many companies address this  
issue by assigning a dedicated  
software testing phase towards the

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end of their development cycle.

However, quality cannot be tested into a buggy application. Early and continuous unit testing has been shown to be crucial for high quality software and low defect rates. Yet current books on testing ignore the developer's point of view and give little guidance on how to bring the overwhelming amount of testing theory into practice. *Unit Testing in Java* represents a practical introduction to unit testing for software developers. It introduces the basic test-first approach and then discusses a large number of special issues and problem cases. The book instructs developers through each step and motivates them to explore

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further. Shows how the discovery and avoidance of software errors is a demanding and creative activity in its own right and can build confidence early in a project.

Demonstrates how automated tests can detect the unwanted effects of small changes in code within the entire system. Discusses how testing works with persistency, concurrency, distribution, and web applications. Includes a discussion of testing with C++ and Smalltalk.

The open source, lightweight Google Web Toolkit (GWT) is a framework that allows Java developers to build rich Internet applications (RIAs), more recently called Ajax applications, in Java.

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Typically, writing these applications requires a lot of JavaScript development. However, Java and JavaScript are very distinctively different languages (although the name suggests otherwise), therefore requiring a different development process. In *Beginning Google Web Toolkit: From Novice to Professional*, you'll learn to build rich, user-friendly web applications using a popular Java-based Ajax web framework, the Google Web Toolkit. The authors will guide you through the complete development of a GWT front-end application with a no-nonsense, down-to-earth approach. You'll start with the first steps of working with GWT and

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learn to understand the concepts and consequences of building this kind of application. During the course of the book, all the key aspects of GWT are tackled pragmatically, as you're using them to build a real-world sample application.

Unlike many other books, the inner workings of GWT and other unnecessary details are shelved, so you can focus on the stuff that really matters when developing GWT applications.

Agile methods are gaining more and more interest both in industry and in research. Many industries are transforming their way of working from traditional waterfall projects with long duration to more

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incremental, iterative and agile practices. At the same time, the need to evaluate and to obtain evidence for different processes, methods and tools has been emphasized. Lech Madeyski offers the first in-depth evaluation of agile methods. He presents in detail the results of three different experiments, including concrete examples of how to conduct statistical analysis with meta analysis or the SPSS package, using as evaluation indicators the number of acceptance tests passed (overall and per hour) and design complexity metrics. The book is appropriate for graduate students, researchers and advanced professionals in software

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engineering. It proves the real benefits of agile software development, provides readers with in-depth insights into experimental methods in the context of agile development, and discusses various validity threats in empirical studies. Aimed at users who are familiar with Java development, "Spring Live" is designed to explain how to integrate Spring into your projects to make software development easier. (Technology & Industrial)

## TECHNICAL APTITUDE FOR INTERVIEWS

Rapid J2EE Development

Unit Testing in Java

Building Spring 2 Enterprise  
Applications



**Obey the Testing Goat: Using Django, Selenium, and JavaScript**  
*Guide to Cloud Computing for Business and Technology Managers: From Distributed Computing to Cloudware Applications unravels the mystery of cloud computing and explains how it can transform the operating contexts of business enterprises. It provides a clear understanding of what cloud computing really means, what it can do, and when it is practical to use. Addressing the primary management and operation concerns of cloudware, including performance, measurement, monitoring, and security, this pragmatic book: Introduces the enterprise applications integration (EAI) solutions that were a first step toward enabling an integrated enterprise Details service-oriented architecture (SOA) and related technologies that paved the road for cloudware*

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*applications Covers delivery models like IaaS, PaaS, and SaaS, and deployment models like public, private, and hybrid clouds Describes Amazon, Google, and Microsoft cloudware solutions and services, as well as those of several other players Demonstrates how cloud computing can reduce costs, achieve business flexibility, and sharpen strategic focus Unlike customary discussions of cloud computing, Guide to Cloud Computing for Business and Technology Managers: From Distributed Computing to Cloudware Applications emphasizes the key differentiator—that cloud computing is able to treat enterprise-level services not merely as discrete stand-alone services, but as Internet-locatable, composable, and repackageable building blocks for generating dynamic real-world enterprise business processes. In today's competitive business environment, most companies realize that the better they*

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*can manage their customer relationships, the more successful they will become. Customer Relationship Management (CRM) software systems are key tools for companies to manage the customer-facing processes of their businesses. However, many companies have resisted implementing this most critical customer-oriented application due in large part to the lack of a single-point resource on implementing a CRM system. This book attempts to fill that gap. Implementing SAP® CRM will help technologists and managers come to grips with the vision, concept, and technology of CRM. It begins by laying out the groundwork for understanding CRM. It explains the concept and context of CRM and the tangible business benefits of CRM adoption. Demonstrating a professional approach to the evaluation and selection of SAP, it details the critical success factors (CSFs), patterns, and anti-patterns of a successful*

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*SAP CRM implementation. CRM implementations can add significant benefit to the company's bottom line only if the company first transforms itself into a customer-centric and customer-responsive enterprise. This book explains what it means to be a customer-centric and responsive enterprise, and provides a framework for business operations based on customer relationships, rather than the traditional four Ps (product, positioning, price, promotion). It further spells out business process reengineering (BPR) strategies to configure internal business processes and operations with SAP CRM to improve customer-facing strategies, services, and relationships.*

*\* This will be the first book to show how to implement a test-driven development process in detail as it applies to real world J2EE applications. \* Combines the tools and methodologies of test-driven development*

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*with real world use cases, unlikely most titles which cover one or the other. \* Looks at the complete process including test coverage strategies, test organization, incorporating TDD into new and existing projects as well as how to automate it all. \* This book is not version specific.*