



Next Generation **JAVA™ TESTING**

TestNG and Advanced Concepts

Cédric Beust | Hani Suleiman
Foreword by **Brian Goetz**

Next Generation Java Testing

Paul Ammann, Jeff Offutt



Next Generation Java Testing:

Next Generation Java Testing Cédric Beust, Hani Suleiman, 2007-10-15 Enterprise Java developers must achieve broader deeper test coverage going beyond unit testing to implement functional and integration testing with systematic acceptance Next Generation Java™ Testing introduces breakthrough Java testing techniques and TestNG a powerful open source Java testing platform Cédric Beust TestNG's creator and leading Java developer Hani Suleiman present powerful flexible testing patterns that will work with virtually any testing tool framework or language They show how to leverage key Java platform improvements designed to facilitate effective testing such as dependency injection and mock objects They also thoroughly introduce TestNG demonstrating how it overcomes the limitations of older frameworks and enables new techniques making it far easier to test today's complex software systems Pragmatic and results focused Next Generation Java™ Testing will help Java developers build more robust code for today's mission critical environments This book illuminates the tradeoffs associated with testing so you can make better decisions about what and how to test Introduces TestNG explains its goals and features and shows how to apply them in real world environments Shows how to integrate TestNG with your existing code development frameworks and software libraries Demonstrates how to test crucial code features such as encapsulation state sharing scopes and thread safety Shows how to test application elements including JavaEE APIs databases Web pages and XML files Presents advanced techniques testing partial failures factories dependent testing remote invocation cluster based test farms and more Walks through installing and using TestNG plug ins for Eclipse and IDEA Contains extensive code examples Whether you use TestNG JUnit or another testing framework the testing design patterns presented in this book will show you how to improve your tests by giving you concrete advice on how to make your code and your design more testable

Next Generation Java Testing: Testng And Advanced Concepts

Beust, 2008-09-01 *Next Generation Java Testing* Beust, 2007 Qualitätssicherung durch Softwaretests Stephan Kleuker, 2019-07-04 Erfahren Sie in diesem Buch alles über die Bedeutung von Softwaretests zur Qualitätssicherung Softwaretests bekommen bei immer komplexer werdenden Programmen eine wachsende Bedeutung für den Projekterfolg Obwohl Testkonzepte bereits etabliert sind werden sie in Unternehmen häufig nur in geringem Maße genutzt da sie zu aufwendig und teuer erscheinen Mit diesem Buch beleuchtet Stephan Kleuker ausführlich die wichtige Rolle von Softwaretests im Rahmen der Qualitätssicherung Neben einer intuitiven Einführung in die Testfallentwicklung ermöglicht Ihnen dieses Werk den schnellen Einstieg in das Testen von Java Programmen mit Hilfe von einfachen Open Source Werkzeugen Dabei werden neben klassischen Programmen auch unterschiedliche Vorgehensweisen und Werkzeuge für Systeme mit Datenbankintegration und Web Applikationen betrachtet die nicht nur für Java Programme anwendbar sind Grundlagen und Spezialbereiche des Testens im Fokus Mit dem Buch *Qualitätssicherung durch Softwaretests* liefert Ihnen Kleuker Impulse für systematische Softwaretests Zunächst stehen Grundbegriffe der Qualitätssicherung und des Testens sowie

die Erstellung von Testfällen mit Hilfe von Äquivalenzklassen und der Grenzwertanalyse im Fokus In den folgenden Abschnitten bringt Ihnen dieses Buch folgende Bereiche der Qualitätssicherung mittels Softwaretests näher JUnit Testfallerstellung mit Äquivalenzklassen Berdeckungsmaße Testarchitektur und Mocking Test von Nutzungsoberflächen Applikationen mit Datenbankbindung Test von Web Applikationen Performance und Lasttests Mit Hilfe verschiedener Werkzeuge erarbeiten Sie sich eigenständig praktische Fertigkeiten Kleuker vermittelt Ihnen in seinem Buch weit mehr als nur theoretisches Wissen über Methoden Verfahren sowie Systeme des Qualitätsmanagements im Softwarebereich Sie erhalten darüber hinaus die praktischen Fertigkeiten um mittels Softwaretests die Qualitätssicherung in Ihrem Unternehmen auf das nächste Level zu heben Schließlich stehen alle vorgestellten Beispiele als Download bereit Freiverfügbare Werkzeuge unterstützen Sie bei allen Arbeitsschritten Die vorliegende zweite Auflage wurde aktualisiert und bearbeitet Dazugekommen sind ein Kapitel zu JUnit 5 sowie zu Behaviour Driven Development Qualitätssicherung durch Softwaretests ist dadurch eine echte Empfehlung für Informatik Studierende Studenten in Informatik orientierten Master Studiengängen Entwickler kritischer Software Systeme und IT Projektmanager

Tests and Proofs Achim Brucker, Jacques Julliand, 2012-05-26 This book constitutes the refereed proceedings of the 6th International Conference on Test and Proofs TAP 2012 held in Prague Czech Republic in May/June 2012 as part of the TOOLS 2012 Federated Conferences The 9 revised full papers presented together with 2 invited papers 4 short papers and one tutorial were carefully reviewed and selected from 29 submissions The papers are devoted to the convergence of tests and proofs for developing novel techniques and application that support engineers in building secure safe and reliable systems Among the topics covered are model based testing scenario based testing complex data structure generation and the validation of protocols and libraries

Introduction to Software Testing Paul Ammann, Jeff Offutt, 2016-12-13 This extensively classroom tested text takes an innovative approach to explaining software testing that defines it as the process of applying a few precise general purpose criteria to a structure or model of the software The book incorporates cutting edge developments including techniques to test modern types of software such as OO web applications and embedded software This revised second edition significantly expands coverage of the basics thoroughly discussing test automaton frameworks and it adds new improved examples and numerous exercises The theory of coverage criteria is carefully and cleanly explained to help students understand concepts before delving into practical applications while extensive use of the JUnit test framework gives students practical experience in a test framework popular in the industry Exercises meanwhile feature specifically tailored tools that allow students to check their own work The book's website also offers an instructor's manual PowerPoint slides testing tools for students and example software programs in Java

Fundamental Approaches to Software Engineering Marsha Chechik, Martin Wirsing, 2009-03-09 This book constitutes the refereed proceedings of the 12th International Conference on Fundamental Approaches to Software Engineering FASE 2009 held in York UK in March 2009 as part of ETAPS 2009 the European Joint Conferences on Theory

and Practice of Software The 30 revised full papers presented together with 2 tool demonstrations were carefully reviewed and selected from 123 regular and 9 tool paper submissions The topics addressed are model driven development synthesis and adaptation modeling testing and debugging model analysis patterns security queries and error handling and tools demos and program analysis

Agile ALM Michael Hüttermann, 2011-08-19 Summary Agile ALM is a guide for Java developers who want to integrate flexible agile practices and lightweight tooling along all phases of the software development process The book introduces a new vision for managing change in requirements and process more efficiently and flexibly It synthesizes technical and functional elements to provide a comprehensive approach to software development About the Technology Agile Application Lifecycle Management Agile ALM combines flexible processes with lightweight tools in a comprehensive and practical approach to building testing integrating and deploying software Taking an agile approach to ALM improves product quality reduces time to market and makes for happier developers About the Book Agile ALM is a guide for Java developers testers and release engineers By following dozens of experience driven examples you will learn to see the whole application lifecycle as a set of defined tasks and then master the tools and practices you need to accomplish those tasks effectively The book introduces state of the art lightweight tools that can radically improve the speed and fluidity of development and shows you how to integrate them into your processes The tools and examples are Java based but the Agile ALM principles apply to all development platforms 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 A thorough introduction to Agile ALM Build an integrated Java based Agile ALM toolchain Use Scrum for release management Reviewed by a team of 20 Agile ALM experts Table of Contents PART 1 INTRODUCTION TO AGILE ALM Getting started with Agile ALM ALM and Agile strategies PART 2 FUNCTIONAL AGILE ALM Using Scrum for release management Task based development PART 3 INTEGRATION AND RELEASE MANAGEMENT Integration and release management Creating a productive development environment Advanced CI tools and recipes PART 4 OUTSIDE IN AND BARRIER FREE DEVELOPMENT Requirements and test management Collaborative and barrier free development with Groovy and Scala

Secrets of the Rock Star Programmers: Riding the IT Crest Ed Burns, 2008-03-13 With the rise of blogging many of the world's most talented programmers have become celebrities in the field of IT This work offers a unique collection of revealing interviews with highly skilled programmers and centers on the themes of staying ahead of the curve and riding the crest of software development

Dr. Dobb's Journal, 2008

Object Oriented Programming in Java Stephen Gilbert, Bill McCarty, 1997 Object Oriented Programming in Java 1.1 uses a hands on approach to basic object oriented programming as it teaches the Java language The CD ROM contains Sun's Java 1.1 Developer's Kit ready to use applet Java binaries and all the source code from the book

Core Java Media Framework Linden DeCarmo, 1999 PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE

The British National Bibliography Arthur James Wells, 2009 Space, Aviation's Next Frontier

,2001 Java Report ,2001 *The Awesome Power of Java Beans* Lawrence H. Rodrigues,1998 With complete instructions for building Java Beans and a set of ready to use Java Beans for a wide variety of applications this book is a serious reference for developers and programmers This title includes steps for converting an applet into a bean and discusses the new Glasgow and InfoBus specifications **Java 2 Certification** Jamie Jaworski, PC/Computing ,1997-06 *EDN* ,2005 PC Magazine ,2002

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