

# Integration Testing From The Trenches

Field Book for Describing and Sampling  
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## **Field Book for Describing and Sampling Soils**

Get past the myths of testing in agile environments - and implement agile testing the RIGHT way. \*\* For everyone concerned with agile testing: developers, testers, managers, customers, and other stakeholders. \* Covers every key issue: Values, practices, organizational and cultural challenges, collaboration, metrics, infrastructure, documentation, tools, and more. \* By two of the world's most experienced agile testing practitioners and consultants. Software testing has always been crucial, but it may be even more crucial in agile environments that rely heavily on repeated iterations of software capable of passing tests. There are, however, many myths associated with testing in agile environments. This book helps agile team members overcome those myths -- and implement testing that truly maximizes software quality and value. Long-time agile testers Lisa Crispin and Janet Gregory offer powerful insights for three large, diverse groups of readers: experienced testers who are new to agile; members of newly-created agile teams who aren't sure how to perform testing or work with testers; and test/QA managers whose development teams are implementing agile. Readers will learn specific agile testing practices and techniques that can mean the difference between success and failure; discover how to transition 'traditional' test teams to agile; and learn how to integrate testers smoothly into agile teams. Drawing on extensive experience, the authors illuminate topics ranging from culture to test planning

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to automated tools. They cover every form of testing: business-facing tests, technology-facing tests, exploratory tests, context-driven and scenario tests, load, stability, and endurance tests, and more. Using this book's techniques, readers can improve the effectiveness and reduce the risks of any agile project or initiative.

## **Debugging Embedded Microprocessor Systems**

## **Domain-Driven Design Quickly**

The world of M&A has always been complex and nuanced. Corporations encounter their toughest business problems during a divestiture or a merger. At the same time, optimal execution of divestitures can also create high value for the seller as well as the buyer. This book is a collection of leading practices on Divestitures and covers end to end transaction life cycle from readiness through execution including post deal transformation. It contains the synthesis of experiences across a wide array of clients across industries, ranging from \$500 million to \$100 billion in revenue. Each chapter in this book can stand on its own as an authority on leading practices related to the topic it presents, and together, these chapters provide a comprehensive set of perspectives needed to successfully complete a divestiture. The highlight of the book is valuable real-life examples and references that a business can benefit from, when it is considering, analyzing or implementing a divestiture.

## The Leverage Principle

Ship It! is a collection of tips that show the tools and techniques a successful project team has to use, and how to use them well. You'll get quick, easy-to-follow advice on modern practices: which to use, and when they should be applied. This book avoids current fashion trends and marketing hype; instead, readers find page after page of solid advice, all tried and tested in the real world. Aimed at beginning to intermediate programmers, Ship It! will show you: Which tools help, and which don't How to keep a project moving Approaches to scheduling that work How to build developers as well as product What's normal on a project, and what's not How to manage managers, end-users and sponsors Danger signs and how to fix them Few of the ideas presented here are controversial or extreme; most experienced programmers will agree that this stuff works. Yet 50 to 70 percent of all project teams in the U.S. aren't able to use even these simple, well-accepted practices effectively. This book will help you get started. Ship It! begins by introducing the common technical infrastructure that every project needs to get the job done. Readers can choose from a variety of recommended technologies according to their skills and budgets. The next sections outline the necessary steps to get software out the door reliably, using well-accepted, easy-to-adopt, best-of-breed practices that really work. Finally, and most importantly, Ship It! presents common problems that teams face, then offers real-world advice on how to solve them.

## Breaking In

Beginning with a survey of fundamental concepts associated with data integration, knowledge representation, and hypothesis generation from heterogeneous data sets, *Methods in Biomedical Informatics* provides a practical survey of methodologies used in biological, clinical, and public health contexts. These concepts provide the foundation for more advanced topics like information retrieval, natural language processing, Bayesian modeling, and learning classifier systems. The survey of topics then concludes with an exposition of essential methods associated with engineering, personalized medicine, and linking of genomic and clinical data. Within an overall context of the scientific method, *Methods in Biomedical Informatics* provides a practical coverage of topics that is specifically designed for: (1) domain experts seeking an understanding of biomedical informatics approaches for addressing specific methodological needs; or (2) biomedical informaticians seeking an approachable overview of methodologies that can be used in scenarios germane to biomedical research. Contributors represent leading biomedical informatics experts: individuals who have demonstrated effective use of biomedical informatics methodologies in the real-world, high-quality biomedical applications. Material is presented as a balance between foundational coverage of core topics in biomedical informatics with practical "in-the-trenches" scenarios. Contains appendices that function as primers on: (1) Unix; (2) Ruby; (3) Databases; and (4) Web Services.

## **Divestitures and Spin-Offs**

The use of copper, silver, gold and platinum in jewelry as a measure of wealth is well known. This book contains 19 chapters written by international authors on other uses and applications of noble and precious metals (copper, silver, gold, platinum, palladium, iridium, osmium, rhodium, ruthenium, and rhenium). The topics covered include surface-enhanced Raman scattering, quantum dots, synthesis and properties of nanostructures, and its applications in the diverse fields such as high-tech engineering, nanotechnology, catalysis, and biomedical applications. The basis for these applications is their high-free electron concentrations combined with high-temperature stability and corrosion resistance and methods developed for synthesizing nanostructures. Recent developments in all these areas with up-to-date references are emphasized.

## **Code Craft**

## **Release It!**

This book is a printed edition of the Special Issue "Integration of 2D Materials for Electronics Applications" that was published in Crystals

## **Developing a Data Warehouse for the Healthcare Enterprise**

The Art and Science of Analyzing Software Data

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provides valuable information on analysis techniques often used to derive insight from software data. This book shares best practices in the field generated by leading data scientists, collected from their experience training software engineering students and practitioners to master data science. The book covers topics such as the analysis of security data, code reviews, app stores, log files, and user telemetry, among others. It covers a wide variety of techniques such as co-change analysis, text analysis, topic analysis, and concept analysis, as well as advanced topics such as release planning and generation of source code comments. It includes stories from the trenches from expert data scientists illustrating how to apply data analysis in industry and open source, present results to stakeholders, and drive decisions. Presents best practices, hints, and tips to analyze data and apply tools in data science projects Presents research methods and case studies that have emerged over the past few years to further understanding of software data Shares stories from the trenches of successful data science initiatives in industry

## **The DevOps Handbook:**

A new book designed for SysAdmins, Operations staff, Developers and DevOps who are interested in deploying a log management solution using the open source tool Logstash. In this book we will walk you through installing, deploying, managing and extending Logstash. We'll teach you how to: \* Install and deploy Logstash. \* Ship events from a Logstash

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Shipper to a central Logstash server. \* Filter incoming events using a variety of techniques. \* Output those events to a selection of useful destinations. \* Use Logstash's awesome web interface Kibana. \* Scale out your Logstash implementation as your environment grows. \* Quickly and easily extend Logstash to deliver additional functionality you might need. By the end of the book you should have a functional and effective log management solution that you can deploy into your own environment.

### **Next Generation Java Testing**

Offers advice on designing and implementing a software test automation infrastructure, and identifies what current popular testing approaches can and cannot accomplish. Rejecting the automation life cycle model, the authors favor limited automation of unit, integration, and system testing. They also present a control synchronized data-driven framework to help jump-start an automation project. Examples are provided in the Rational suite test studio, and source code is available at a supporting web site. Annotation copyrighted by Book News, Inc., Portland, OR.

### **Scrum and XP from the Trenches - 2nd Edition**

Looks at the characteristics of brownfield applications and offers information on how to successfully take over the development of an existing application, covering such topics as coding, version control,

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automated testing, and continuous integration.

## **Learning Vaadin 7: Second Edition**

When you hit a rough spot in software development, it's nice to know that someone has been there before. The domain experts at ThoughtWorks share what they've learned in this anthology, bringing together the best field-tested insights in IT and software development. You'll benefit from their experience in areas from testing to information visualization, from object oriented to functional programming, from incremental development to driving innovation in delivery. You'll find yourself referring to this collection of solved problems whenever you need an expert's insight. This new collection of essays from the experts at ThoughtWorks offers practical insight and advice on a range of challenges faced daily by software developers and IT professionals. It covers a broad spectrum of software development topics, from tuning agile methodologies to hard-core language geekery. This anthology captures the wide-ranging intellect and diversity of ThoughtWorks, reflected through practical and timely topics. In it, you'll find from-the-trenches advice on topics such as continuous integration, testing, and improving the software delivery process. See how people use functional programming techniques in object-oriented languages, modern Java web applications, and deal with current problems in JavaScript development. Scan an overview of the most interesting programming languages today and the current state of information visualization. And it's all field-tested

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insight, because it comes from the practical perspective of ThoughtWorks experts. Each essay focuses on extending your skills and enlarging your toolkit. And each is drawn from practical experience gained in the field. You'll benefit from this book if you are involved in developing, deploying, or testing software, either as a manager or developer.

## **Perspectives on Data Science for Software Engineering**

Perspectives on Data Science for Software Engineering presents the best practices of seasoned data miners in software engineering. The idea for this book was created during the 2014 conference at Dagstuhl, an invitation-only gathering of leading computer scientists who meet to identify and discuss cutting-edge informatics topics. At the 2014 conference, the concept of how to transfer the knowledge of experts from seasoned software engineers and data scientists to newcomers in the field highlighted many discussions. While there are many books covering data mining and software engineering basics, they present only the fundamentals and lack the perspective that comes from real-world experience. This book offers unique insights into the wisdom of the community's leaders gathered to share hard-won lessons from the trenches. Ideas are presented in digestible chapters designed to be applicable across many domains. Topics included cover data collection, data sharing, data mining, and how to utilize these techniques in successful software projects. Newcomers to software

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engineering data science will learn the tips and tricks of the trade, while more experienced data scientists will benefit from war stories that show what traps to avoid. Presents the wisdom of community experts, derived from a summit on software analytics Provides contributed chapters that share discrete ideas and technique from the trenches Covers top areas of concern, including mining security and social data, data visualization, and cloud-based data Presented in clear chapters designed to be applicable across many domains

## **The ThoughtWorks Anthology, Volume 2**

Breaking In: Tales from the Screenwriting Trenches is a no-nonsense, boots-on-the-ground exploration of how writers REALLY go from emerging to professional in today's highly saturated and competitive screenwriting space. With a focus on writers who have gotten representation and broken into the TV or feature film space after the critical 2008 WGA strike and financial market collapse, the reader will learn from tangible examples of how success was achieved via hard work and specific methodology. This book includes interviews from writers who wrote major studio releases (The Boy Next Door), staffed on television shows (American Crime, NCIS New Orleans, Sleepy Hollow), sold specs and television shows, placed in competitions, and were accepted to prestigious network and studio writing programs. These interviews are presented as Screenwriter Spotlights throughout the book and are supported by insight from top-selling agents and managers

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(including those who have sold scripts and pilots, had their writers named to prestigious lists such as The Black List and The Hit List) as well as working industry executives. Together, these anecdotes, learnings and perceptions, tied in with the author's extensive experience in and knowledge of the industry, will inform the reader about how the industry REALLY works, what it expects from both working and emerging writers, as well as what next steps the writer should engage in, in order to move their screenwriting career forward.

### **Japanese Journal of Applied Physics**

This book aims to give you a head start by providing a detailed down-to-earth account of how one Swedish company implemented Scrum and XP with a team of approximately 40 people and how they continuously improved their process over a year's time. Under the leadership of Henrik Kniberg they experimented with different team sizes, different sprint lengths, different ways of defining "done," different formats for product backlogs and sprint backlogs, different testing strategies, different ways of doing demos, different ways of synchronizing multiple Scrum teams, etc. They also experimented with XP practices - different ways of doing continuous build, pair programming, test driven development, etc, and how to combine this with Scrum. This second edition is an annotated version, a "director's cut" where Henrik reflects upon the content and shares new insights gained since the first version of the book.

## **Methods in Biomedical Informatics**

Increase profitability, elevate work culture, and exceed productivity goals through DevOps practices. More than ever, the effective management of technology is critical for business competitiveness. For decades, technology leaders have struggled to balance agility, reliability, and security. The consequences of failure have never been greater—whether it's the healthcare.gov debacle, cardholder data breaches, or missing the boat with Big Data in the cloud. And yet, high performers using DevOps principles, such as Google, Amazon, Facebook, Etsy, and Netflix, are routinely and reliably deploying code into production hundreds, or even thousands, of times per day. Following in the footsteps of The Phoenix Project, The DevOps Handbook shows leaders how to replicate these incredible outcomes, by showing how to integrate Product Management, Development, QA, IT Operations, and Information Security to elevate your company and win in the marketplace.

## **Ship it!**

Domain Driven Design is a vision and approach for dealing with highly complex domains that is based on making the domain itself the main focus of the project, and maintaining a software model that reflects a deep understanding of the domain. This book is a short, quickly-readable summary and introduction to the fundamentals of DDD; it does not introduce any new concepts; it attempts to concisely

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summarize the essence of what DDD is, drawing mostly Eric Evans' original book, as well other sources since published such as Jimmy Nilsson's Applying Domain Driven Design, and various DDD discussion forums. The main topics covered in the book include: Building Domain Knowledge, The Ubiquitous Language, Model Driven Design, Refactoring Toward Deeper Insight, and Preserving Model Integrity. Also included is an interview with Eric Evans on Domain Driven Design today.

## The Basel II Risk Parameters

ThoughtWorks is a well-known global consulting firm; ThoughtWorkers are leaders in areas of design, architecture, SOA, testing, and agile methodologies. This collection of essays brings together contributions from well-known ThoughtWorkers such as Martin Fowler, along with other authors you may not know yet. While ThoughtWorks is perhaps best known for their work in the Agile community, this anthology confronts issues throughout the software development life cycle. From technology issues that transcend methodology, to issues of realizing business value from applications, you'll find it here.

## Brownfield Application Development in .NET

One definition of leverage is using something to maximum advantage. The goal for every software development project should be to utilize every asset - everything you've previously built, everything your

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team learned about the business needs and domain, and every skill and bit of expertise in a technology platform. Utilize these previous investments rather than creating them new every single time. Not only is it wasteful and expensive to rebuild assets that have already been created, it jeopardizes your company's success. Key questions addressed in The Leverage Principle: - How can I streamline our software development projects and decrease waste? - How can I quantify our technical debt? - How can I manage code complexity? - What are some effective methods for working with legacy code? - How can DevOps be more effectively managed? - How can I build high performance development teams? The Leverage Principle offers techniques for extending software life, reducing cost, and streamlining project development and operations. The overall approach is pragmatic rather than academic. This book is written by an engineer, rather than a manager, resulting in an "in the trenches" feel. This book assumes familiarity with Agile, Scrum, Test Driven Development, Continuous Integration, Refactoring, Reviews, Incremental Development, Continuous Delivery, Acceptance Testing, Unit Testing, and System Testing.

## **Statistical Inference as Severe Testing**

### **Noble and Precious Metals**

The estimation and the validation of the Basel II risk parameters PD (default probability), LGD (loss given fault), and EAD (exposure at default) is an important

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problem in banking practice. These parameters are used on the one hand as inputs to credit portfolio models and in loan pricing frameworks, on the other to compute regulatory capital according to the new Basel rules. This book covers the state-of-the-art in designing and validating rating systems and default probability estimations. Furthermore, it presents techniques to estimate LGD and EAD and includes a chapter on stress testing of the Basel II risk parameters. The second edition is extended by three chapters explaining how the Basel II risk parameters can be used for building a framework for risk-adjusted pricing and risk management of loans.

### **More Agile Testing**

Debugging Embedded Microprocessor Systems provides techniques for engineers, technicians, and students who need to correct design faults in embedded systems. Using real-world scenarios, designers can learn practical, time-saving ways to avoid and repair potentially costly problems. Prevention is stressed. In this book, the author addresses hardware and software issues, including up-front design techniques to prevent bugs and contain design creep. Practical advice includes descriptions of common tools which can be used to help identify and repair bugs, as well as test routines. RTOS and embedded PC environments are also covered. Each chapter of Debugging Embedded Microprocessor Systems opens with an example design problem which illustrates real-world issues such as design changes, time pressures, equipment or component

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availability, etc. Case studies of past debugging projects are presented in the final chapter. Addresses real-world issues like design changes, time pressures, equipment or component availability Practical, time-saving methods for preventing and correcting design problems Covers debugging tools and programmer test routines

## **The Art and Science of Analyzing Software Data**

A guide to writing computer code covers such topics as variable naming, presentation style, error handling, and security.

## **The Thoughtworks Anthology**

A single dramatic software failure can cost a company millions of dollars - but can be avoided with simple changes to design and architecture. This new edition of the best-selling industry standard shows you how to create systems that run longer, with fewer failures, and recover better when bad things happen. New coverage includes DevOps, microservices, and cloud-native architecture. Stability antipatterns have grown to include systemic problems in large-scale systems. This is a must-have pragmatic guide to engineering for production systems. If you're a software developer, and you don't want to get alerts every night for the rest of your life, help is here. With a combination of case studies about huge losses - lost revenue, lost reputation, lost time, lost opportunity - and practical, down-to-earth advice that was all

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gained through painful experience, this book helps you avoid the pitfalls that cost companies millions of dollars in downtime and reputation. Eighty percent of project life-cycle cost is in production, yet few books address this topic. This updated edition deals with the production of today's systems - larger, more complex, and heavily virtualized - and includes information on chaos engineering, the discipline of applying randomness and deliberate stress to reveal systematic problems. Build systems that survive the real world, avoid downtime, implement zero-downtime upgrades and continuous delivery, and make cloud-native applications resilient. Examine ways to architect, design, and build software - particularly distributed systems - that stands up to the typhoon winds of a flash mob, a Slashdotting, or a link on Reddit. Take a hard look at software that failed the test and find ways to make sure your software survives. To skip the pain and get the experience get this book.

### **Environmental Impact Analysis Process: Missile flight testing**

A trip through modern computer culture that examines the cyberpunk movement, the hacker sub-culture, virtual reality, and smart drugs

### **Lean from the Trenches**

Janet Gregory and Lisa Crispin pioneered the agile testing discipline with their previous work, Agile Testing. Now, in More Agile Testing, they reflect on all

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they've learned since. They address crucial emerging issues, share evolved agile practices, and cover key issues agile testers have asked to learn more about. Packed with new examples from real teams, this insightful guide offers detailed information about adapting agile testing for your environment; learning from experience and continually improving your test processes; scaling agile testing across teams; and overcoming the pitfalls of automated testing. You'll find brand-new coverage of agile testing for the enterprise, distributed teams, mobile/embedded systems, regulated environments, data warehouse/BI systems, and DevOps practices. You'll come away understanding

- How to clarify testing activities within the team
- Ways to collaborate with business experts to identify valuable features and deliver the right capabilities
- How to design automated tests for superior reliability and easier maintenance
- How agile team members can improve and expand their testing skills
- How to plan “just enough,” balancing small increments with larger feature sets and the entire system
- How to use testing to identify and mitigate risks associated with your current agile processes and to prevent defects
- How to address challenges within your product or organizational context
- How to perform exploratory testing using “personas” and “tours”
- Exploratory testing approaches that engage the whole team, using test charters with session- and thread-based techniques
- How to bring new agile testers up to speed quickly—without overwhelming them

Janet Gregory is founder of DragonFire Inc., an agile quality process consultancy and training firm. Her passion is helping teams build quality systems. For almost fifteen years,

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she has worked as a coach and tester, introducing agile practices into companies of all sizes and helping users and testers understand their agile roles. She is a frequent speaker at agile and testing software conferences, and is a major contributor to the agile testing community. Lisa Crispin, an experienced agile testing practitioner and coach, regularly leads conference workshops on agile testing and contributes frequently to agile software publications. She enjoys collaborating as part of an awesome agile team to produce quality software. Since 1982, she has worked in a variety of roles on software teams, in a wide range of industries. She joined her first agile team in 2000 and continually learns from other teams and practitioners.

## **Integration of 2D Materials for Electronics Applications**

This book begins with a tutorial on Vaadin 7, followed by a process of planning, analyzing, building, and deploying a fully functional RIA while covering troubleshooting details along the way, making it an invaluable resource for answers to all your Vaadin questions. If you are a Java developer with some experience in development either on JSP/Servlet or on Swing, and want to enter the world of rich Internet applications, then this technology and book is ideal for you. Learning Vaadin will be perfect as your next step towards building eye-catching, dynamic web applications on a Java-based platform.

## **Building Web Applications with ADO.NET**

## **and XML Web Services**

Unlock today's statistical controversies and irreproducible results by viewing statistics as probing and controlling errors.

## **Integration Testing from the Trenches**

This third edition to the award-winning book is a straightforward view of a clinical data warehouse development project, from inception through implementation and follow-up. Through first-hand experiences from individuals charged with such an implementation, this book offers guidance and multiple perspectives on the data warehouse development process – from the initial vision to system-wide release. The book provides valuable lessons learned during a data warehouse implementation at King Faisal Specialist Hospital and Research Center (KFSH&RC) in Riyadh, Saudi Arabia – a large, modern, tertiary-care hospital with an IT environment that parallels a typical U.S. hospital. This book also examines the value of the data warehouse from the perspectives of a large healthcare system in the U.S. and a corporate health services business unit. Special features of the book include a sample RFP, data warehouse project plan, and information analysis template. A helpful glossary and acronyms list are included.

## **Agile Testing**

Common Sense Supply Management is a no-holds-

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barred practical guide to supply management and process improvement. If you dislike consultants, buzzwords and theory, then this non-traditional book is meant for you. Straight forward and to the point, the book will be difficult to put down until you have finished the supply management adventure. Dr. Tom DePaoli, a veteran supply management pro, learned his lessons the hard way and wants to share his valuable insights with all business professionals. Visit [www.commonensesupplymanagement.com](http://www.commonensesupplymanagement.com)

## **Common Sense Supply Management**

You know the Agile and Lean development buzzwords, you've read the books. But when systems need a serious overhaul, you need to see how it works in real life, with real situations and people. Lean from the Trenches is all about actual practice. Every key point is illustrated with a photo or diagram, and anecdotes bring you inside the project as you discover why and how one organization modernized its workplace in record time. Lean from the Trenches is all about actual practice. Find out how the Swedish police combined XP, Scrum, and Kanban in a 60-person project. From start to finish, you'll see how to deliver a successful product using Lean principles. We start with an organization in desperate need of a new way of doing things and finish with a group of sixty, all working in sync to develop a scalable, complex system. You'll walk through the project step by step, from customer engagement, to the daily "cocktail party," version control, bug tracking, and release. In this honest look at what works--and what

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doesn't--you'll find out how to: Make quality everyone's business, not just the testers. Keep everyone moving in the same direction without micromanagement. Use simple and powerful metrics to aid in planning and process improvement. Balance between low-level feature focus and high-level system focus. You'll be ready to jump into the trenches and streamline your own development process.

### **The Logstash Book**

This edition is a straightforward view of a clinical data warehouse development project, from Inception through Implementation and follow-up. Through first-hand experiences from Individuals charged with the Implementation, this book offers guidance and multiple perspectives on the data warehouse development process--from the Initial vision to system-wide release. The book provides valuable lessons learned during a data warehouse Implementation at King Faisal Specialist Hospital and Research Center (KFSH&RC) in Riyadh, Saudi Arabia, a large, modern, tertiary-care hospital with an IT environment that parallels a typical U.S. hospital.

### **Developing a Data Warehouse for the Healthcare Enterprise: Lessons from the Trenches**

Stephens and Rosenberg examine XP in the context of existing methodologies and processes such as RUP, ICONIX, Spiral, RAD, DSDM, etc - and show how XP goals can be achieved using these existing processes.

## **Unit Testing Principles, Practices, and Patterns**

How to create a simulation where participants have a sense of freedom and personal control while still maintaining the structure necessary for an effective story is a difficult task indeed. This book examines how to create an engaging, effective story (necessary to teach participants), while relating practical considerations of building a simulation. It also looks at stories as classic ways of teaching and gathering knowledge and considers other theories of interactive narrative design such as synthetic story creation and management and participant-generated story experiences. It also discusses enabling technologies in artificial intelligence, synthetic characters design and development, speech recognition technology, 3D modelling, and the future of story-driven games. Story Driven Simulations reviews the existing efforts in this field as well as focusing on the recent efforts of Paramount Pictures and The Institute for Creative Technologies at the University of Southern California, where this expert author team created successful simulations for the U.S. Army, Department of Defense, as well as other educational simulations.

## **Spring Data Standard Guide**

Implement JPA repositories and harness the performance of Redis in your applications.

## **Extreme Programming Refactored**

## Story and Simulations for Serious Games

Software development is a complex craft requiring many steps in its road to completion. In particular, achieving the best context-dependent ratio between cost and quality can only be achieved through an adequate testing strategy. "Integration Testing from the Trenches" covers through different areas of testing and integration tests in both Java & JavaEE ecosystems: Definitions of relevant terms around testing and integration testing Basic testing tools usable for testing Build tools usage for integration testing, including recipes for Maven and Gradle Mocks, stubs and fakes, in particular in regard to infrastructure resources such as databases, mail and FTP servers, web services In-container testing for the Spring and Spring MVC applications In-container testing for JavaEE application This book is intended for software developers that want to go beyond just unit-testing and test the collaboration of their classes and modules in an efficient way. At some point in time, available tools were restricted to Jakarta Cactus for Struts. However, the thriving Open Source ecosystem can now provide everything we need to provide proper integration tests, as well as ways to use them with the greatest possible Return Over Investment.

## Cyberia

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™

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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

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show you how to improve your tests by giving you concrete advice on how to make your code and your design more testable.

### **Just Enough Software Test Automation**

Unit Testing Principles, Patterns and Practices shows you how to refine your existing unit tests by implementing modern best practices. You'll learn to spot which tests are performing, which need refactoring, and which need to be deleted entirely! Upgrade your testing suite with new testing styles, good patterns, and reliable automated testing. Unit Testing Principles, Practices and Patterns is a practical guide to modern unit testing best practices. Microsoft MVP Vladimir Khorikov takes you hands-on with examples of the ideal unit test and unit testing practices, building your skills step by step on a solid foundation. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

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