

Oracle Real Application Testing White Paper

Written by experienced Oracle insiders, this essential guide distills a vast amount of information into an easy-to-read volume that covers every aspect of the Oracle database. Readers of all technical levels will learn about Oracle's features and technologies, including the product line, architecture, data structures, networking, concurrency, tuning and much more. Augmented with illustrations and helpful hints, the fifth edition of Oracle Essentials offers a valuable one-stop overview of Oracle Database 12c, Oracle's newest database release. More comprehensible than huge complete references, and more detailed than most primers, this book gives current Oracle users the conceptual background they need to understand how the Oracle database

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truly works. For those new to Oracle, this all-in-one guide provides an essential introduction that will get them up to speed. This book constitutes the joint refereed proceedings of the three workshops held in conjunction with the 7th International Conference on Web Information Systems, WISE 2006, in Wuhan, China, in October 2006.

Extensively class-tested, this textbook takes an innovative approach to software testing: it defines testing as the process of applying a few well-defined, general-purpose test criteria to a structure or model of the software. It incorporates the latest innovations in testing, including techniques to test modern types of software such as OO, web applications, and embedded software. The book contains numerous examples throughout. An instructor's solution manual, PowerPoint slides, sample syllabi, additional examples and updates,

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testing tools for students, and example software programs in Java are available on an extensive website.

** Encapsulates the knowledge and experience of some of the foremost experts in Oracle development, the vast majority of whom are also established and successful authors. * Covers landmark software and techniques (invented by the authors) that have changed the face of Oracle development. * A broad ranging, anecdotal and humorous title that will appeal to anyone (developers, DBAs, manager, architects etc) involved with and Oracle-based project. * Simplified code snippets, the book provides real solutions that people can then build upon themselves.*

Oracle Insights

Foundations of Software Testing, 2/e

Advances in Intelligent Decision

Technologies

Computerworld

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Optimizing Oracle Code

*Proceedings of 8th Computer Science On-
line Conference 2019, Vol. 1*

**Oracle Embedded Programming
and Application**

DevelopmentCRC Press

***The abundance of information
and increase in computing power
currently enable researchers to
tackle highly complicated and
challenging computational
problems. Solutions to such
problems are now feasible using
advances and innovations from
the area of Artificial Intelligence.
The general focus of the AIAI
conference is to provide insights
on how Artificial Intelligence may
be applied in real-world
situations and serve the study,***

analysis and modeling of theoretical and practical issues. This volume contains papers selected for presentation at the 6th IFIP Conference on Artificial Intelligence Applications and Innovations (AIAI 2010) and held in Larnaca, Cyprus, during October 6–7, 2010. IFIP AIAI 2010 was co-organized by the University of Cyprus and the Cyprus University of Technology and was sponsored by the Cyprus University of Technology, Frederick University and the Cyprus Tourism Organization. AIAI 2010 is the official conference of the WG12.5 “Artificial Intelligence Applications” working group of

IFIP TC12, the International Federation for Information Processing Technical Committee on Artificial Intelligence (AI). AIAI is a conference that grows in significance every year attracting researchers from different countries around the globe. It maintains high quality, standards and welcomes research papers describing technical advances and engineering and industrial applications of intelligent systems. AIAI 2010 was not confined to introducing how AI may be applied in real-life situations, but also included innovative methods, techniques, tools and ideas of AI expressed at the algorithmic or systemic

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level.

Papers and articles discussing several significant advances in the software testing and validation field.

Implement Proven Database Optimization Solutions Systematically identify and eliminate database performance problems with help from Oracle Certified Master Richard Niemiec. Filled with real-world case studies and best practices, Oracle Database 11g Release 2 Performance Tuning Tips & Techniques details the latest monitoring, troubleshooting, and optimization methods. Find out how to find and fix bottlenecks, configure storage devices,

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execute effective queries, and develop bug-free SQL and PL/SQL code. Testing, reporting, and security enhancements are also covered in this Oracle Press guide. Properly index and partition Oracle Database 11g Release 2 Work with Oracle Exadata and Oracle Exalogic Elastic Cloud Efficiently manage disk drives, RAID arrays, and memory Tune queries with Oracle SQL hints and the TRACE utility Troubleshoot databases using V\$ views and X\$ tables Distribute workload using Oracle Real Application Testing Generate reports using Oracle's Statspack and Automatic Workload Repository tools Use

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sar, vmstat, and iostat to monitor system statistics “This is a timely update of Rich’s classic book on Oracle Database performance tuning to cover hot new topics like Oracle Database 11g Release 2 and Oracle Exadata. This is a must-have for DBAs moving to these new products.” --Andrew Mendelsohn, Senior Vice President, Oracle Database Server Technologies
Introduction to Software Testing
Tales of the Oak Table
6th IFIP WG 12.5 International Conference, AIAI 2010, Larnaca, Cyprus, October 6-7, 2010, Proceedings
Trustworthy Online Controlled

Experiments

Network World

Solving Enterprise Applications

Performance Puzzles

This edition of Foundations of Software Testing is aimed at the undergraduate, the graduate students and the practicing engineers. It presents sound engineering approaches for test generation, ion, minimization, assessment, and enhancement. Using numerous examples, it offers a lucid description of a wide range of simple to complex techniques for a variety of testing-related tasks. It also discusses the comparative analyses of commercially

available testing tools to facilitate the tool ion.

This book constitutes the refereed proceedings of the 8th International Conference on Software Reuse, ICSR-8, held in Madrid, Spain in July 2004. The 28 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on software variability: requirements; testing reusable software; feature modeling; aspect-oriented software development; component and service development; code level reuse; libraries,

**classification, and retrieval;
model-based approaches;
transformation and
generation; and requirements.
A hands-on guide to testing
techniques that deliver reliable
software and systems Testing
even a simple system can
quickly turn into a potentially
infinite task. Faced with tight
costs and schedules, testers
need to have a toolkit of
practical techniques combined
with hands-on experience and
the right strategies in order to
complete a successful project.
World-renowned testing expert
Rex Black provides you with
the proven methods and
concepts that test**

professionals must know. He presents you with the fundamental techniques for testing and clearly shows you how to select and apply successful strategies to test a system with budget and time constraints. Black begins by discussing the goals and tactics of effective and efficient testing. Next, he lays the foundation of his technique for risk-based testing, explaining how to analyze, prioritize, and document risks to the quality of the system using both informal and formal techniques. He then clearly describes how to design,

develop, and, ultimately, document various kinds of tests. Because this is a hands-on activity, Black includes realistic, life-sized exercises that illustrate all of the major test techniques with detailed solutions. By the end of this book, you'll know more about the nuts and bolts of testing than most testers learn in an entire career, and you'll be ready to put those ideas into action on your next test project. With the help of real-world examples integrated throughout the chapters, you'll discover how to: Analyze the risks to system quality Allocate your testing effort

appropriately based on the level of risk Choose the right testing strategies every time Design tests based on a system's expected behavior (black box) or internal structure (white box) Plan and perform integration testing Explore and attack the system Focus your hard work to serve the needs of the project The author's companion Web site provides exercises, tips, and techniques that can be used to gain valuable experience and effectively test software and systems. Wiley Technology Publishing Timely. Practical. Reliable. Visit the author's Web site at <http://www.rexblac>

kconsulting.com/

Quickly Get Up and Running on Oracle Database Exadata Cloud Service Quickly install, configure, and start using Oracle Database Exadata Cloud Service with the hands-on information contained in this comprehensive Oracle Press guide. Designed for easy learning, the book features real-world examples, detailed illustrations, and step-by-step instructions. Oracle Database Exadata Cloud Service: A Beginner's Guide walks you through the basics and shows you how to provision, create, and deploy databases. Basic system administration tasks,

including data backup and recovery, software patching, and system updating, are clearly explained. Advanced monitoring and data compression techniques are also covered. Inside, you'll discover how to:

- Set up and configure Oracle Database Exadata Cloud Service
- Navigate the user interface
- Work with tooling and CLIs
- Deploy smart scans and storage indexes
- Employ the latest compression techniques
- Handle Oracle Exadata resource management
- Administer Oracle Exadata Smart Flash Cache
- Manage and monitor

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**your Oracle Exadata Cloud
Service • Migrate to Oracle
Exadata Cloud Service TAG:
For a complete list of Oracle
Press titles, visit**

www.OraclePressBooks.com.

**WISE 2006 International
Workshops, Wuhan, China,
October 23-26, 2006,**

Proceedings

**Software Engineering Methods
in Intelligent Algorithms
for Oracle Developers and
DBAs**

**Oracle PL/SQL Programming
Oracle PL/SQL Best Practices
Oracle Database Exadata Cloud
Service: A Beginner's Guide**

Expert Oracle RAC Performance
Diagnostics and Tuning provides

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comprehensive coverage of the features, technology and principles for testing and tuning RAC databases. The book takes a deep look at optimizing RAC databases by following a methodical approach based on scientific analysis rather than using a speculative approach, twisting and turning knobs and gambling on the system. The book starts with the basic concepts of tuning methodology, capacity planning, and architecture. Author Murali Vallath then dissects the various tiers of the testing implementation, including the operating system, the network, the application, the storage, the instance, the database, and the grid infrastructure. He also introduces tools for performance optimization and

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thoroughly covers each aspect of the tuning process, using many real-world examples, analyses, and solutions from the field that provide you with a solid, practical, and replicable approach to tuning a RAC environment. The book concludes with troubleshooting guidance and quick reference of all the scripts used in the book. Expert Oracle RAC Performance Diagnostics and Tuning covers scenarios and details never discussed before in any other performance tuning books. If you have a RAC database, this book is a requirement. Get your copy today. Takes you through optimizing the various tiers of the RAC environment. Provides real life case studies, analysis and solutions from the field. Maps a methodical approach to testing, tuning

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and diagnosing the cluster

"This book discusses the current state of test automation practices, as it includes chapters related to software test automation and its validity and applicability in different domains"--Provided by publisher.

In recent years, cloud computing has gained a significant amount of attention by providing more flexible ways to store applications remotely. With software testing continuing to be an important part of the software engineering life cycle, the emergence of software testing in the cloud has the potential to change the way software testing is performed. *Software Testing in the Cloud: Perspectives on an Emerging Discipline* is a comprehensive collection of research

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by leading experts in the field providing an overview of cloud computing and current issues in software testing and system migration. Deserving the attention of researchers, practitioners, and managers, this book aims to raise awareness about this new field of study.

A superior primer on software testing and quality assurance, from integration to execution and automation This important new work fills the pressing need for a user-friendly text that aims to provide software engineers, software quality professionals, software developers, and students with the fundamental developments in testing theory and common testing practices. Software Testing and Quality Assurance: Theory and Practice equips

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readers with a solid understanding of: Practices that support the production of quality software Software testing techniques Life-cycle models for requirements, defects, test cases, and test results Process models for units, integration, system, and acceptance testing How to build test teams, including recruiting and retaining test engineers Quality Models, Capability Maturity Model, Testing Maturity Model, and Test Process Improvement Model Expertly balancing theory with practice, and complemented with an abundance of pedagogical tools, including test questions, examples, teaching suggestions, and chapter summaries, this book is a valuable, self-contained tool for professionals and an ideal introductory text for courses in

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software testing, quality assurance, and software engineering.

Practical Solutions

Informationweek

Becoming an Effective and Efficient

Test Professional

A Practical Guide to A/B Testing

Expert Oracle RAC Performance

Diagnostics and Tuning

The authors have revised and updated this bestseller to include both the Oracle8i and new Oracle9i Internet-savvy database products.

This book presents software engineering methods in the context of the intelligent systems. It discusses real-world problems and exploratory research describing novel approaches and applications of software engineering, software design and algorithms. The book

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constitutes the refereed proceedings of the Software Engineering Methods in Intelligent Algorithms Section of the 8th Computer Science On-line Conference 2019 (CSOC 2019), held on-line in April 2019.

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

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The financial markets industry is at the same crossroads as the automotive industry in the late 1970s. Margins are collapsing and customization is rapidly increasing. The automotive industry turned to quality and its no coincidence that in the money management industry many of the spectacular failures have been due largely to problems in quality control. The financial industry is on the verge of a quality revolution. New and old firms alike are creating new investment vehicles and new strategies that are radically changing the nature of the industry. To compete, mutual funds, hedge fund industries, banks and proprietary trading firms are being forced to quickly research, test and implement trade selection and execution systems. And, just as in

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the early stages of factory automation, quality suffers and leads to defects. Many financial firms fall short of quality, lacking processes and methodologies for proper development and evaluation of trading and investment systems. Authors Kumiega and Van Vliet present a new step-by-step methodology for such development. Their methodology (called K|V) has been presented in numerous journal articles and at academic and industry conferences and is rapidly being accepted as the preferred business process for the institutional trading and hedge fund industries for development, presentation, and evaluation of trading and investment systems. The K|V model for trading system development combines new

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product development, project management and software development methodologies into one robust system. After four stages, the methodology requires repeating the entire waterfall for continuous improvement. The discussion quality and its applications to the front office is presented using lessons learned by the authors after using the methodology in the real world. As a result, it is flexible and modifiable to fit various projects in finance in different types of firms. Their methodology works equally well for short-term trading systems, longer-term portfolio management or mutual fund style investment strategies as well as more sophisticated ones employing derivative instruments in hedge

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funds. Additionally, readers will be able to quickly modify the standard K|V methodology to meet their unique needs and to quickly build other quantitatively drive applications for finance. At the beginning and the end of Quality Money Management the authors pose a key question: Are you willing to change and embrace quality for the 21st century or are willing to accept extinction? The real gem in this book is that the concepts give the reader a road map to avoid extinction. Presents a robust process engineering framework for developing and evaluating trading and investment systems Best practices along the step-by-step process will mitigate project risk, model risk, and ensure data quality Includes a quality

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model for backtesting and managing market risk of working systems

Oracle on LinuxONE

Software Testing in the Cloud: Perspectives on an Emerging Discipline

Oracle Database 11g CIO.

Quality Money Management Software Testing and Quality Assurance

If you have mastered the fundamentals of the PL/SQL language and are now looking for an in-depth, practical guide to solving real problems with PL/SQL stored procedures, then this is the book for you.

The First Complete Guide to Mobile App Testing and Quality

Assurance: Start-to-Finish Testing Solutions for Both Android and iOS Today, mobile apps must meet rigorous standards of reliability, usability, security, and performance. However, many mobile developers have limited testing experience, and mobile platforms raise new challenges even for long-time testers. Now, **Hands-On Mobile App Testing** provides the solution: an end-to-end blueprint for thoroughly testing any iOS or Android mobile app. Reflecting his extensive real-life experience, Daniel Knott offers practical guidance on everything from mobile test planning to automation. He provides expert

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insights on mobile-centric issues, such as testing sensor inputs, battery usage, and hybrid apps, as well as advice on coping with device and platform fragmentation, and more. If you want top-quality apps as much as your users do, this guide will help you deliver them. You'll find it invaluable—whether you're part of a large development team or you are the team. Learn how to Establish your optimal mobile test and launch strategy Create tests that reflect your customers, data networks, devices, and business models Choose and implement the best Android and iOS testing tools Automate testing while ensuring

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comprehensive coverage Master both functional and nonfunctional approaches to testing Address mobile's rapid release cycles Test on emulators, simulators, and actual devices Test native, hybrid, and Web mobile apps Gain value from crowd and cloud testing (and understand their limitations) Test database access and local storage Drive value from testing throughout your app lifecycle Start testing wearables, connected homes/cars, and Internet of Things devices Intelligent Decision Technologies (IDT) seeks an interchange of research on intelligent systems and intelligent technologies

which enhance or improve decision making in industry, government and academia. The focus is interdisciplinary in nature, and includes research on all aspects of intelligent decision technologies, from fundamental development to the applied system. This volume represents leading research from the Second KES International Symposium on Intelligent Decision Technologies (KES IDT'10), hosted and organized by the Sellinger School of Business and Management, Loyola University Maryland, USA, in conjunction with KES International. The symposium was concerned with theory,

design development, implementation, testing and evaluation of intelligent decision systems. Topics include decision making theory, intelligent agents, fuzzy logic, multi-agent systems, Bayesian networks, optimization, artificial neural networks, genetic algorithms, expert systems, decision support systems, geographic information systems, case-based reasoning, time series, knowledge management systems, Kansei communication, rough sets, spatial decision analysis, and multi-criteria decision analysis. These technologies have the potential to revolutionize decision making in many areas of management,

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healthcare, international business, finance, accounting, marketing, military applications, ecommerce, network management, crisis response, building design, information retrieval, and disaster recovery. Poorly performing enterprise applications are the weakest links in a corporation's management chain, causing delays and disruptions of critical business functions. This groundbreaking book frames enterprise application performance engineering not as an art but as applied science built on model-based methodological foundation. The book introduces queuing models

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of enterprise application that visualize, demystify, explain, and solve system performance issues. Analysis of these models will help to discover and clarify unapparent connections and correlations among workloads, hardware architecture, and software parameters.

**FCS Computer Programming L4
Oracle Database 11g Release 2
Performance Tuning Tips &
Techniques**

**Proceedings of the Second KES
International Symposium IDT
2010**

**Web Information Systems - WISE
2006 Workshops**

**State of the Art and Perspectives
Oracle Database 12c Release 2**

Performance Tuning Tips & Techniques

Software testing can be regarded as an art, a craft, and a science. The practical, step-by-step approach presented in this book provides a bridge between these different viewpoints. A single worked example runs throughout, with consistent use of test automation. Each testing technique is introduced in the context of this example, helping students see its strengths and

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weaknesses. The technique is then explained in more detail, providing a deeper understanding of underlying principles. Finally the limitations of each technique are demonstrated by inserting faults, giving learners concrete examples of when each technique succeeds or fails in finding faults. Coverage includes black-box testing, white-box testing, random testing, unit testing, object-oriented testing, and

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application testing. The authors also emphasise the process of applying the techniques, covering the steps of analysis, test design, test implementation, and interpretation of results. The book's web site has programming exercises and Java source code for all examples.

“The situation is good, but not hopeless”
(Polish folk wisdom) The text is devoted to the Software Analysis and Testing (SAT) methods

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and supporting tools for assessing and, if possible, improving software quality, specifically its correctness. The term quality assurance is avoided for it is this author's firm belief that in the current state of the art that goal is unattainable, a plethora of "guaranteed" solutions to the problem notwithstanding. Therefore, the rather awkward phrase "improving correctness" is to be understood as

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an effort to minimize the number of residual programming faults (“bugs”) and their impact on the software’s behavior, that is, to make the faults tolerable. It is clear that such a minimalist approach is a result of frustration. Indeed, having spent years developing software and teaching (preaching?) “How to do it right,” I still do not know how to go about it with any degree of certainty! It appears then I probably

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should stop right now, for who with a modicum of common sense would reach for a text that does not offer salvation but (as will be seen) hard work and misery? If I intend to continue, it is only that I suspect there are many professionals out there who have similar doubts. And they are the intended audience of this project. The philosophical underpinning of the text is the importance of sound engine-

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practices in software development.

A resource for information executives, the online version of CIO offers executive programs, research centers, general discussion forums, online information technology links, and reports on information technology issues. In this book, Steven Feuerstein, widely recognized as one of the world's experts on the Oracle PL/SQL language, distills his many years

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of programming, writing, and teaching about PL/SQL into a set of PL/SQL language "best practices"--rules for writing code that is readable, maintainable, and efficient. Too often, developers focus on simply writing programs that run without errors--and ignore the impact of poorly written code upon both system performance and their ability (and their colleagues' ability) to maintain that code over

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time. Oracle PL/SQL Best Practices is a concise, easy-to-use reference to Feuerstein's recommendations for excellent PL/SQL coding. It answers the kinds of questions PL/SQL developers most frequently ask about their code: How should I format my code? What naming conventions, if any, should I use? How can I write my packages so they can be more easily maintained? What is the most efficient way to query information

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from the database? How can I get all the developers on my team to handle errors the same way? The book contains 120 best practices, divided by topic area. It's full of advice on the program development process, coding style, writing SQL in PL/SQL, data structures, control structures, exception handling, program and package construction, and built-in packages. It also contains a handy, pull-out quick reference card. As a

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helpful supplement to the text, code examples demonstrating each of the best practices are available on the O'Reilly web site. Oracle PL/SQL Best Practices is intended as a companion to O'Reilly's larger Oracle PL/SQL books. It's a compact, readable reference that you'll turn to again and again--a book that no serious developer can afford to be without. Process Engineering and Best Practices for Systematic Trading and

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Investment

Frameworks for Refined
Practice

Essentials of Software
Testing

Queuing Models to the
Rescue

Hands-On Mobile App
Testing

Software Reuse: Methods,
Techniques, and Tools

***Focusing on tried and true
best practice techniques in
cross-technology based
Oracle embedded
programming, this book
provides authoritative
guidance for improving
your code compilation and***

execution. Geared towards IT professionals developing Oracle-based Web-enabled applications in PL/SQL, Java, C, C++, .NET, Perl, and PHP, it covers application development from concepts to customization, following a pragmatic approach to design, coding, testing, deployment, and customization—explaining how to maximize embedded programming practices. Oracle Embedded Programming and Application Development explains application development frameworks

using 3GL and 4GL high-level language code as embedded code segments across .NET, Java, and Open Source technologies, in conjunction with SQL and/or PL/SQL and the Oracle RDBMS through version 11gR2. It also:

- Features pluggable code using parameterized constructs to promote code reuse**
- Explains when to use a particular embedded language as a best fit for specific applications**
- Highlights design considerations that reduce the probability of errors, enable quick resolution,**

and boost performance in terms of enabling a Fast-Actionable-Synchronized-Tested (FAST) solution implementation Provides best practice techniques that can enhance any application development code-design methodology for a better, easier, faster, cheaper, and pervasive solution that in turn helps achieve a Better Business Benefit (B-B-B) This practical guide details techniques for constructing architecture and code design methodologies for live application development projects that

can be generalized and standardized as application development and code design frameworks. Cover to cover, the text provides an understanding of how the designed, developed, and deployed solutions conform to emerging and next-generation trends. It also discusses the conformance and usage of Web 2.0-based RIA functionality and regulatory compliance practices involving auditing and security. Praise for: "Taking an Oracle-centric approach, Lakshman skillfully guides you through the maze of

various popular programming languages and environments including .NET, C/C++, Perl, PHP, Java, and even SQL and PL/SQL - not only showing you how they interact with Oracle but also which language is the best fit for a given situation." —John Kanagaraj, Executive Editor, IOUG SELECT Journal Master Oracle Data Guard 11g Provide superior data protection, availability, and disaster recovery using the tested techniques in this Oracle Press guide. Cowritten by a team of Oracle experts, Oracle Data

Guard 11g Handbook provides a sound architectural foundation along with best practices for configuration, monitoring, maintenance, and troubleshooting. You will get full details on implementing deployment architectures to address requirements that extend beyond disaster recovery. This invaluable resource also includes a complete set of monitoring scripts available for download. Develop a disaster recovery plan for your Oracle database to meet your organization's

**requirements Configure
and deploy Oracle Data
Guard for your environment
Tune and troubleshoot your
physical and logical
standby databases
Implement the Oracle Data
Guard Broker management
framework Integrate with
Oracle Grid Control Monitor
your Oracle Data Guard
environment Enable read-
only services and disaster
recovery with Oracle Active
Data Guard Configure
seamless database and
application failover
Minimize planned downtime
using Oracle Data Guard
switchover Handle backup**

***and recovery with Oracle
Recovery Manager
Getting numbers is easy;
getting numbers you can
trust is hard. This practical
guide by experimentation
leaders at Google, LinkedIn,
and Microsoft will teach
you how to accelerate
innovation using
trustworthy online
controlled experiments, or
A/B tests. Based on
practical experiences at
companies that each run
more than 20,000
controlled experiments a
year, the authors share
examples, pitfalls, and
advice for students and***

industry professionals getting started with experiments, plus deeper dives into advanced topics for practitioners who want to improve the way they make data-driven decisions. Learn how to • Use the scientific method to evaluate hypotheses using controlled experiments • Define key metrics and ideally an Overall Evaluation Criterion • Test for trustworthiness of the results and alert experimenters to violated assumptions • Build a scalable platform that lowers the marginal cost of

**experiments close to zero •
Avoid pitfalls like carryover
effects and Twyman's law •
Understand how statistical
issues play out in practice.
For more than 40 years,
Computerworld has been
the leading source of
technology news and
information for IT
influencers worldwide.
Computerworld's award-
winning Web site
(Computerworld.com),
twice-monthly publication,
focused conference series
and custom research form
the hub of the world's
largest global IT media
network.**

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***Software Verification and
Analysis***

Expert PL/SQL Practices

Perspectives on an

Emerging Discipline

Advanced Automated

Software Testing:

Frameworks for Refined

Practice

Software Engineering for

Science

A Guide for Mobile Testers

and Anyone Involved in the

Mobile App Business

Expert PL/SQL Practices is a book of collected wisdom on PL/SQL programming from some of the best and the brightest in the field. Each chapter is a deep-dive into a

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specific problem, technology, or feature set that you'll face as a PL/SQL programmer. Each author has chosen their topic out of the strong belief that what they share can make a positive difference in the quality and scalability of code that you write. The path to mastery begins with syntax and the mechanics of writing statements to make things happen. If you've reached that point with PL/SQL, then let the authors of Expert PL/SQL Practices show you how to combine syntax and mechanics with features and techniques to

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really make the language sing. You'll learn to do more with less effort, to write code that scales and performs well, and to eliminate and avoid defects. These authors are passionate about PL/SQL and the power it places at your disposal. They want you to succeed, to know all that PL/SQL can offer. Let Expert PL/SQL Practices open your eyes to the full power of Oracle's world-class language for the database engine. Goes beyond the manual to cover good techniques and best practices Delivers knowledge

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usually gained only by hard experience Covers the functionality that distinguishes PL/SQL as a powerful and scalable programming language for deploying logic inside the database engine

Proven Database

Optimization Solutions—Fully Updated for Oracle Database 12c Release 2 Systematically identify and eliminate database performance problems with help from Oracle Certified Master Richard Niemiec. Filled with real-world case studies and best practices, Oracle

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Database 12c Release 2 Performance Tuning Tips and Techniques details the latest monitoring, troubleshooting, and optimization methods. Find out how to identify and fix bottlenecks on premises and in the cloud, configure storage devices, execute effective queries, and develop bug-free SQL and PL/SQL code. Testing, reporting, and security enhancements are also covered in this Oracle Press guide.

- Properly index and partition Oracle Database 12c Release 2
- Work effectively with Oracle Cloud,

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Oracle Exadata, and Oracle Enterprise Manager • Efficiently manage disk drives, ASM, RAID arrays, and memory • Tune queries with Oracle SQL hints and the Trace utility • Troubleshoot databases using V\$ views and X\$ tables • Create your first cloud database service and prepare for hybrid cloud • Generate reports using Oracle's Statspack and Automatic Workload Repository tools • Use sar, vmstat, and iostat to monitor operating system statistics Oracle Database 12c running

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on Linux is available for deployment on IBM® LinuxONE. The enterprise-grade Linux on LinuxONE solution is designed to add value to Oracle Database solutions, including the new functions that are introduced in Oracle Database 12c. In this IBM Redbooks® publication, we explore the IBM and Oracle Alliance and describe how Oracle Database benefits from LinuxONE. We then explain how to set up Linux guests to install Oracle Database 12c. We also describe how to use the Oracle Enterprise

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Manager Cloud Control Agent to manage Oracle Database 12c Release 1. Additionally, we discuss encryption for Oracle using Oracle Transparent Data Encryption (TDE) on Oracle 12c Release 2. We also describe a successful consolidation project from sizing to migration, performance management topics, and high availability. Finally, we end with a chapter about surrounding Oracle with Open Source software. The audience for this publication includes database consultants,

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installers, administrators, and system programmers. This publication is not meant to replace Oracle documentation, but to supplement it with our experiences while installing and using Oracle products. The papers of this volume focus on the foundational aspects of computer science, the thematic origin and stronghold of LNCS, under the title “Computing and Software Science: State of the Art and Perspectives”. They are organized in two parts: The first part, Computation and

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Complexity, presents a collection of expository papers on fashionable themes in algorithmics, optimization, and complexity. The second part, Methods, Languages and Tools for Future System Development, aims at sketching the methodological evolution that helps guaranteeing that future systems meet their increasingly critical requirements. Chapter 3 is available open access under a Creative Commons Attribution 4.0 International License via

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Oracle Enterprise Manager
Grid Control: Advanced OEM
Techniques for the Real
World

An Integrated, Hands-On
Approach

Oracle Embedded
Programming and
Application Development
Artificial Intelligence
Applications and Innovations
Oracle Essentials

Mastering Oracle PL/SQL

Oracle is an enormous
system, with myriad
technologies, options, and
releases. Most users--even
experienced developers and

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database administrators--find it difficult to get a handle on the full scope of the Oracle database. And, as each new Oracle version is released, users find themselves under increasing pressure to learn about a whole range of new technologies. The latest challenge is Oracle Database 11g. This book distills an enormous amount of information about Oracle into a compact, easy-to-read volume filled with focused text, illustrations, and helpful hints. It contains chapters on: Oracle products, options, data structures, and overall

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architecture for Oracle Database 11g, as well as earlier releases (Oracle Database 10g, Oracle9i, and Oracle8i) Installing, running, managing, monitoring, networking, and tuning Oracle, including Enterprise Manager (EM) and Oracle's self-tuning and management capabilities; and using Oracle security, auditing, and compliance (a new chapter in this edition) Multiuser concurrency, data warehouses, distributed databases, online transaction processing (OLTP), high availability, and hardware architectures (e.g., SMP,

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clusters, NUMA, and grid computing) Features beyond the Oracle database: Oracle Application Express, Fusion Middleware (including Oracle Application Server), and database SOA support as a Web services provider The latest Oracle Database 11g features: query result set caching, Automatic Memory Management, the Real Application Testing, Advanced Compression, Total Recall, and Active Data Guard Option Options, changes to the OLAP Option (transparently accessed and managed as materialized views), the

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Flashback transaction command, transparent data encryption, the Support Workbench (and diagnosability infrastructure), and partitioning enhancements (including interval and new composite types) For new Oracle users, DBAs, developers, and managers, Oracle Essentials provides an invaluable, all-in-one introduction to the full range of Oracle features and technologies, including the just-released Oracle Database 11g features. But even if you already have a library full of Oracle documentation, you'll

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find that this compact book is the one you turn to, again and again, as your one-stop, truly essential reference. "Oracle Essentials gives a clear explanation of the key database concepts and architecture underlying the Oracle database. It's a great reference for anyone doing development or management of Oracle databases."

--Andrew Mendelsohn, Senior Vice President, Database Server Technologies, Oracle Corporation
Software Engineering for Science provides an in-depth collection of peer-reviewed

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chapters that describe experiences with applying software engineering practices to the development of scientific software. It provides a better understanding of how software engineering is and should be practiced, and which software engineering practices are effective for scientific software. The book starts with a detailed overview of the Scientific Software Lifecycle, and a general overview of the scientific software development process. It highlights key issues commonly arising during scientific software

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development, as well as solutions to these problems. The second part of the book provides examples of the use of testing in scientific software development, including key issues and challenges. The chapters then describe solutions and case studies aimed at applying testing to scientific software development efforts. The final part of the book provides examples of applying software engineering techniques to scientific software, including not only computational modeling, but also software for data management and

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analysis. The authors describe their experiences and lessons learned from developing complex scientific software in different domains. About the Editors Jeffrey Carver is an Associate Professor in the Department of Computer Science at the University of Alabama. He is one of the primary organizers of the workshop series on Software Engineering for Science (<http://www.SE4Science.org/workshops>). Neil P. Chue Hong is Director of the Software Sustainability Institute at the University of Edinburgh. His research interests include

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barriers and incentives in research software ecosystems and the role of software as a research object. George K. Thiruvathukal is Professor of Computer Science at Loyola University Chicago and Visiting Faculty at Argonne National Laboratory. His current research is focused on software metrics in open source mathematical and scientific software.

Oracle's Enterprise Manager Grid Control is recognized as the IT Industry's leading Oracle database administration and management tool. It is

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unrivalled in its ability to monitor, manage, maintain and report on entire enterprise grids that comprise hundreds (if not thousands) of Oracle databases and servers following an approach that is consistent and repeatable. However, Enterprise Manager Grid Control may seem daunting even to the most advanced Oracle Administrator. The problem is you know about the power of Enterprise Manager but how do you unleash that power amongst what initially appears to be a maze of GUI-based screens that feature a myriad

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of links to reports and management tasks that in turn lead you to even more reports and management tasks? This book shows you how to unleash that power. Based on the Author's considerable and practical Oracle database and Enterprise Manager Grid Control experience you will learn through illustrated examples how to create and schedule RMAN backups, generate Data Guard Standbys, clone databases and Oracle Homes and patch databases across hundreds and thousands of databases. You will learn how you can

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unlock the power of the Enterprise Manager Grid Control Packs, PlugIns and Connectors to simplify your database administration across your company's database network, as also the management and monitoring of important Service Level Agreements (SLAs), and the nuances of all important real-time change control using Enterprise Manager. There are other books on the market that describe how to install and configure Enterprise Manager but until now they haven't explained using a simple and illustrated approach how to

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get the most out of your
Enterprise Manager. This book
does just that.

Pragmatic Software Testing
Theory and Practice
Computing and Software
Science

Oracle Data Guard 11g
Handbook

8th International Conference,
ICSR 2004, Madrid, Spain, July
5-9, 2004, Proceedings

Tutorial, Software Testing &
Validation Techniques