Advanced Reliable Software

Hubert B. Keller, Erhard Plödereder, Peter Dencker, Herbert Klenk

Flexible, Reliable Software Henrik B. Christensen, 2011-06-21 Flexible, Reliable Software: Using Patterns and Agile Development guides students through the software development process. By describing practical stories, explaining the design and programming process in detail, and using projects as a learning context, the text helps readers understand why a given technique is required and why techniques must be combined to overcome the challenges facing software developers. The presentation is pedagogically organized as a realistic development story in which customer requests require introducing new techniques to combat ever-increasing software complexity. After an overview and introduction of basic terminology, the book presents the core practices, concepts, tools, and analytic skills for designing flexible and reliable software, including test-driven development, refactoring, design patterns, test doubles, and responsibility driven and compositional design. It then provides a collection of design patterns leading to a thorough discussion of frameworks, exemplified by a graphical user interface frramework (MiniDraw). The author also discusses the important topics of configuration management and systematic testing. In the last chapter, projects lead students to design and implement their own frameworks, resulting in a reliable and usable implementation of a large and complex software system complete with a graphical user interface. This text teaches how to design, program, and maintain flexible and reliable software. Installation guides, source code for the examples, exercises, and projects can be found on the author's website.

Advanced Reliability Modeling Tadashi Dohi, Won Young Yun, 2004 The 2004 Asian International Workshop on Advanced Reliability Modeling is a symposium for the dissemination of state-of-the-art research and the presentation of practice in reliability engineering and related issues in Asia. It brings together researchers, scientists and practitioners from Asian countries to discuss the state of research and practice in dealing with reliability issues at the system design (modeling) level, and to jointly formulate an agenda for future research in this engineering area. The proceedings cover all the key topics in reliability, maintainability and safety engineering, providing an in-depth presentation of theory and practice. The proceedings have been selected for coverage in: . OCo Index to Scientific & Technical Proceedings (ISTP CDROM version / ISI Proceedings). OCo CC Proceedings OCo Engineering & Physical Sciences.

Advanced Reliability Modeling II Tadashi Dohi, Won Young Yun, 2006 The 2006 Asian International Workshop on Advanced Reliability Modeling (AIWARM) is the second symposium in a series of biennial workshops for the dissemination of state-of-art research and the presentation of practice in reliability and maintenance engineering in Asia. It brings together researchers and engineers from not only Asian countries but also all over world to discuss the state of research and practice in dealing with both reliability issues at the system design phase and maintenance issues at the system operation phase. The theme of AIWARM 2006 is ?reliability testing and improvement?. The contributions in this volume cover all the main topics in reliability and maintenance engineering, providing an in-depth presentation of theory and practice.

Building Applications with Windows Workflow Foundation (WF) Michael Stiefel,2007-07-09 This is the eBook version of the printed book. Windows Workflow Foundation (WF) is Microsoft's programming model for building workflow-enabled applications in the Windows operating system. It includes a namespace, a workflow engine, and design tools that can be used with Visual Studio .NET. Workflow is an extremely important type of application that has been difficult to build on the Microsoft platform. Workflow Foundation is a major element of the .NET Framework 3.0 platform that enables application developers to build these types of applications. In Building Applications with Windows Workflow Foundation: Advanced Workflow Features, author, MVP, speaker, and leading consultant Michael Stiefel introduces readers to the some of the more advanced features of Windows Workflow foundation that are necessary for building more sophisticated applications.

Reliable Software for Unreliable Hardware Semeen Rehman, Muhammad Shafique, Jörg Henkel, 2016-04-20 This book describes novel software concepts to increase reliability under user-defined constraints. The authors' approach bridges, for the first time, the reliability gap between hardware and software. Readers will learn how to achieve increased soft error resilience on unreliable hardware, while exploiting the inherent error masking characteristics and error (stemming from soft errors, aging, and process variations) mitigations potential at different software layers.

Continuous Delivery Jez Humble, David Farley, 2010-07-27 Winner of the 2011 Jolt Excellence Award! Getting software released to users is often a painful, risky, and time-consuming process. This groundbreaking new book sets out the principles and technical practices that enable rapid, incremental delivery of high quality, valuable new functionality to users. Through automation of the build, deployment, and testing process, and improved collaboration between developers, testers, and operations, delivery teams can get changes released in a matter of hours— sometimes even minutes—no matter what the size of a project or the complexity of its code base. Jez Humble and David Farley begin by presenting the foundations of a rapid, reliable, low-risk delivery process. Next, they introduce the "deployment pipeline," an automated process for managing all changes, from check-in to release. Finally, they discuss the "ecosystem" needed to support continuous delivery, from infrastructure, data and configuration management to governance. The authors introduce state-of-the-art techniques, including automated infrastructure management and data migration, and the use of virtualization. For each, they review key issues, identify best practices, and demonstrate how to mitigate risks. Coverage includes • Automating all facets of building, integrating, testing, and deploying software • Implementing deployment pipelines at team and organizational levels • Improving collaboration between developers, testers, and operations • Developing features incrementally on large and distributed teams • Implementing an effective configuration management strategy • Automating acceptance testing, from analysis to implementation • Testing capacity and other non-functional requirements • Implementing continuous deployment and zero-downtime releases • Managing infrastructure, data, components and dependencies • Navigating risk management, compliance, and auditing Whether you're a developer, systems administrator, tester, or manager, this book will help your organization move from idea to release faster than ever—so you can deliver value to your business rapidly and reliably.

<u>System Reliability Management</u> Adarsh Anand, Mangey Ram, 2018-09-21 This book provides the latest research advances in the field of system reliability assurance and engineering. It contains reference material for applications of reliability in system engineering, offering a theoretical sound background with adequate numerical illustrations. Included are concepts pertaining to reliability analysis, assurance techniques and methodologies, tools, and practical applications of system reliability modeling and allocation. The collection discusses various soft computing techniques like artificial intelligence and particle swarm optimization approach for reliability assessment. Importance of differentiating between the optimal release time and testing stop time of the software

has been explicitly discussed and presented in the book. Features: Creates understanding of the costs associated with complex systems Covers reliability measurement of engineering systems Incorporates an efficient effort-based expenditure policy incorporating cost and reliability criteria Provides information for optimal testing stop and release time of software system Presents software performance and security layout Addresses reliability prediction and its maintenance through advanced analytics techniques Overall, System Reliability Management: Solutions and Techniques is a collaborative and interdisciplinary approach for better communication of problems and solutions to increase the performance of the system for better utilization and resource management.

MySQL Database Design and Tuning Robert D Schneider, 2005-06-13 The authoritative, hands-on guide to advanced MySQL programming and administration techniques for high performance is here. MySQL Database Design and Tuning is the only guide with coverage of both the basics and advanced topics, including reliability, performance, optimization and tuning for MySQL. This clear, concise and unique source for the most reliable MySQL performance information will show you how to: Deploy the right MySQL product for your performance needs. Set up a performance management and monitoring environment using tools from MySQL. Implement the right indexing strategy Apply good performance strategy when developing software to work with the MySQL database. Configure dozens of variable to correctly tune the MySQL engine. If you deal with the intricacies and challenges of advanced MySQL functionality on a daily basis, you will be able to build on your knowledge with author Robert Schneider's real-world experiences in MySQL Database Design and Tuning.

Operating System Structures to Support Security and Reliable Software Theodore A. Linden, 1976 Software Reliability Assessment with OR Applications P.K. Kapur, Hoang Pham, A. Gupta, P.C. Jha, 2013-05-09 Software Reliability Assessment with OR Applications is a comprehensive guide to software reliability measurement, prediction, and control. It provides a thorough understanding of the field and gives solutions to the decisionmaking problems that concern software developers, engineers, practitioners, scientists, and researchers. Using operations research techniques, readers will learn how to solve problems under constraints such as cost, budget and schedules to achieve the highest possible quality level. Software Reliability Assessment with OR Applications is a comprehensive text on software engineering and applied statistics, state-of-the art software reliability modeling, techniques and methods for reliability assessment, and related optimization problems. It addresses various topics, including: unification methodologies in software reliability assessment; application of neural networks to software reliability assessment; software reliability growth modeling using stochastic differential equations; software release time and resource allocation problems; and optimum component selection and reliability analysis for fault tolerant systems. Software Reliability Assessment with OR Applications is designed to cater to the needs of software engineering practitioners, developers, security or risk managers, and statisticians. It can also be used as a textbook for advanced undergraduate or postgraduate courses in software reliability, industrial engineering, and operations research and management.

Software Reliability Engineering John D. Musa,1999 Musa...is considered the guru of software reliabilityengineering.--Michael R. Lyn, Ph.D., Technical Staff, AT&TLaboratories. The Hands-On Guide to SRE. Spotlighting the practicalsteps that you need to apply Software Reliability Engineering tosoftware development and testing, this first-of-its-kind guide putsthe efficiency-enhancing benefits of SRE within easy reach. Organizedfor quick learning and rapid application, this book leads you throughthe entire SRE process with the Fone Follower case study, adapted froma Bell Laboratories product. To enhance understanding, each chapterfeatures answered FAQs, as well as hands-on exercises for instantapplication. The book boils down the core practice of SRE to a one-or two-day learning process. Even newcomers to Software ReliabilityEngineering can quickly discover how to: set quantitative reliabilitygoals; develop operational profiles; use CASRE to estimate softwarereliability; determine operational modes. Also helpful to systemsengineer, s systems architects, developers, and managers, this uniqueand valuable tool shows you step-by-step how to deliver the highlyefficient engineered software development and testing proceduresneeded in today's fast-moving marketplace.

Design for Trustworthy Software Bijay K. Jayaswal, Peter C. Patton, 2006-08-31 ASQ 2007 CROSBY MEDAL WINNER! An Integrated Technology for Delivering Better Software—Cheaper and Faster! This book presents an integrated technology, Design for Trustworthy Software (DFTS), to address software quality issues upstream such that the goal of software quality becomes that of preventing bugs in implementation rather than finding and eliminating them during and after implementation. The thrust of the technology is that major quality deployments take place before a single line of code is written! This customer-oriented integrated technology can help deliver breakthrough results in cost, quality, and delivery schedule thus meeting and exceeding customer expectations. The authors describe the principles behind the technology as well as their applications to actual software design problems. They present illustrative case studies covering various aspects of DFTS technology including CoSQ, AHP, TRIZ, FMEA, QFD, and Taguchi Methods and provide ample questions and exercises to test the readers understanding of the material in addition to detailed examples of the applications of the technology. The book can be used to impart organization-wide learning including training for DFTS Black Belts and Master Black Belts. It helps you gain rapid mastery, so you can deploy DFTS Technology quickly and successfully. Learn how to • Plan, build, maintain, and improve your trustworthy software development system • Adapt best practices of quality, leadership, learning, management for the unique software development milieu • Listen to the customer's voice, then guide user expectations to realizable, reliable software products • Refocus on customer-centered issues such as reliability, dependability, availability, and upgradeability • Encourage greater design creativity and innovation • Validate, verify, test, evaluate, integrate, and maintain software for trustworthiness • Analyze the financial impact of software quality • Prepare your leadership and infrastructure for DFTS Design for Trustworthy Software will help you improve quality whether you develop in-house, outsource, consult, or provide support. It offers breakthrough solutions for the entire spectrum of software and quality professionals—from developers to project leaders, chief software architects to customers. The American Society for Quality (ASQ) is the world's leading authority on quality which provides a community that advances learning, quality improvement, and knowledge exchange to improve business results, and to create better workplaces and communities worldwide. The Crosby Medal is presented to the individual who has authored a distinguished book contributing significantly to the extension of the philosophy and application of the principles, methods, or techniques of quality management. Bijay K. Jayaswal, CEO of Agilenty Consulting Group, has held senior executive positions and consulted on quality and strategy for 25 years. His expertise includes value engineering, process improvement, and product development. He has directed MBA and Advanced Management programs, and helped to introduce enterprise-wide reengineering and Six Sigma initiatives. Dr. Peter C. Patton, Chairman of Agilenty Consulting Group, is Professor of Quantitative Methods and Computer Science

at the University of St. Thomas. He served as CIO of the University of Pennsylvania and CTO at Lawson Software, and has been involved with software development since 1955.

Hands-on Site Reliability Engineering Shamayel M. Farooqui, Vishnu Vardhan Chikoti, 2021-07-06 A comprehensive guide with basic to advanced SRE practices and hands-on examples. KEY FEATURES ● Demonstrates how to execute site reliability engineering along with fundamental concepts. ● Illustrates real-world examples and successful techniques to put SRE into production. ● Introduces you to DevOps, advanced techniques of SRE, and popular tools in use. DESCRIPTION Hands-on Site Reliability Engineering (SRE) brings you a tailor-made guide to learn and practice the essential activities for the smooth functioning of enterprise systems, right from designing to the deployment of enterprise software programs and extending to scalable use with complete efficiency and reliability. The book explores the fundamentals around SRE and related terms, concepts, and techniques that are used by SRE teams and experts. It discusses the essential elements of an IT system, including microservices, application architectures, types of software deployment, and concepts like load balancing. It explains the best techniques in delivering timely software releases using containerization and CI/CD pipeline. This book covers how to track and monitor application performance using Grafana, Prometheus, and Kibana along with how to extend monitoring more effectively by building full-stack observability into the system. The book also talks about chaos engineering, types of system failures, design for high-availability, DevSecOps and AIOps. WHAT YOU WILL LEARN ● Learn the best techniques and practices for building and running reliable software. ● Explore observability and popular methods for effective monitoring of applications. ● Workaround SLIs, SLOs, Error Budgets, and Error Budget Policies to manage failures. ● Learn to practice continuous software delivery using blue/green and canary deployments. ● Explore chaos engineering, SRE best practices, DevSecOps and AIOps. WHO THIS BOOK IS FOR This book caters to experienced IT professionals, application developers, software engineers, and all those who are looking to develop SRE capabilities at the individual or team level. TABLE OF CONTENTS 1. Understand the World of IT 2. Introduction to DevOps 3. Introduction to SRE 4. Identify and Eliminate Toil 5. Release Engineering 6. Incident Management 7. IT Monitoring 8. Observability 9. Key SRE KPIs: SLAs, SLOs, SLIs, and Error Budgets 10. Chaos Engineering 11. DevSecOps and AIOps 12. Culture of Site Reliability Engineering

Reliable Software Technologies -- Ada-Europe 2013 Hubert B. Keller, Erhard Plödereder, Peter Dencker, Herbert Klenk, 2013-05-27 This book constitutes the refereed proceedings of the 18th Ada-Europe International Conference on Reliable Software Technologies, Ada-Europe 2013, was held in Berlin, Germany, in June 2013. The 11 full papers presented were carefully reviewed and selected from various submissions. They are organized in topical sections on multi-core and distributed systems; Ada and Spark; dependability; and real-time systems.

Mastering PostgreSQL 11 Hans-Jürgen Schönig, 2018-10-30 Master the capabilities of PostgreSQL 11 to efficiently manage and maintain your database Key FeaturesMaster advanced concepts of PostgreSQL 11 with real-world datasets and examplesExplore query parallelism, data replication, and database performance while working with larger datasetsExtend the functionalities of your PostgreSQL instance to suit your organization's needs with minimal effortBook Description This second edition of Mastering PostgreSQL 11 helps you build dynamic database solutions for enterprise applications using the latest release of PostgreSOL, which enables database analysts to design both the physical and technical aspects of the system architecture with ease. This book begins with an introduction to the newly released features in PostgreSQL 11 to help you build efficient and fault-tolerant PostgreSQL applications. You'll examine all of the advanced aspects of PostgreSQL in detail, including logical replication, database clusters, performance tuning, monitoring, and user management. You will also work with the PostgreSQL optimizer, configuring PostgreSQL for high speed, and see how to move from Oracle to PostgreSQL. As you progress through the chapters, you will cover transactions, locking, indexes, and optimizing queries to improve performance. Additionally, you'll learn to manage network security and explore backups and replications, while understanding the useful extensions of PostgreSQL so that you can optimize the speed and performance of large databases. By the end of this book, you will be able to use your database to its utmost capacity by implementing advanced administrative tasks with ease. What you will learnGet to grips with advanced PostgreSQL 11 features and SQL functionsMake use of the indexing features in PostgreSQL and fine-tune the performance of your queriesWork with stored procedures and manage backup and recoveryMaster replication and failover techniquesTroubleshoot your PostgreSQL instance for solutions to common and not-so-common problemsPerform database migration from MySQL and Oracle to PostgreSQL with easeWho this book is for This book is for data and database professionals wanting to implement advanced functionalities and master complex administrative tasks with PostgreSQL 11. Prior experience of database administration with PostgreSQL database will aid in understanding the concepts covered in this book.

Reliable Software Technologies Ada-Europe 2000 Hubertus B. Keller, Erhard Plödereder, 2006-12-30 This book constitutes the proceedings of the 23rd Ada-Europe International Conference on Reliable Software Technologies, Ada-Europe 2018, held in Lisbon, Portugal, in June 2018. The 10 papers presented in this volume were carefully reviewed and selected from 27 submissions. They were organized in topical sections named: safety and security; Ada 202X; handling implicit overhead; real-time scheduling; and new application domains.

Software Reliability Engineering John D. Musa, 2004 Software Reliability Engineering is the classic guide to this time-saving practice for the software professional. ACM Software Engineering Notes praised it as: an introductory book, a reference, and an application book all compressed in a single volume The author's experience in reliability engineering is apparent and his expertise is infused in the text. IEEE Computer noted: Toward software you can depend on This book illustrates the entire SRE process An aid to systems engineers, systems architects, developers, and managers. This Second Edition is thoroughly rewritten for the latest SRE practice, enlarged 50%, and polished by thousands of practitioners. Added workshops help you apply what you learn to your project. Frequently asked questions were doubled to more than 700. The step-by-step process summary, software user manual, list of articles of SRE user experience, glossary, background sections, and exercises are all updated, enhanced, and exhaustively indexed. To see the Table of Contents and other details, click on http://members.aol.com/JohnDMusa/book.htm

Reliable Software Technologies - Ada-Europe 2004 Albert Llamosi, Alfred Strohmeier, 2004-04-22 The Ninth International Conference on Reliable Software Technologies, Ada- Europe 2004, took place in Palma, Spain, June 14—18, 2004. It was sponsored by Ada-Europe, the European federation of national Ada societies, and Ada- Spain, in cooperation with ACM SIGAda. It was organized by members of the University of the Balearic Islands (UIB). As in past years, the conference comprised a three-day technical program, during which the papers contained in these proceedings were presented, along with vendor presentations. The technical program was bracketed by two tutorial days, when the attendees had the opportunity to catch up on a variety of topics related to the ?eld, at both

introductory and advanced levels. Furthermore, the conference was accompanied by an exhibition where vendors presented their products for supporting reliable-software development. Invited Speakers

Theconferencepresentedfourdistinguishedspeakers, whodeliveredstate-of-t- art information on topics of great importance, both for now and for the future of software engineering: — S. Tucker Taft, SoftCheck Inc., USA Fixing software before it breaks: using static analysis to help solve the so- ware quality quagmire — Martin Gogolla, University of Bremen, Germany Bene?ts and problems of formal methods — Antoni Oliv ´e, Polytechnical University of Catalonia, Spain On the role of conceptual schemas in information systems' development — Stephen Vinoski, IONA Technologies in Waltham, USA Can middleware be reliable?

Wewouldliketoexpressoursinceregratitudetothesedistinguishedspeakers, well known to the community, for sharing their insights with the conference participants. Submitted Papers
Alargenumberofpapersweresubmitted, from as many as 15 di? erent countries.

Reliable JavaScript Lawrence D. Spencer, Seth H. Richards, 2015-07-20 Create more robust applications with a testfirst approach to JavaScript Reliable JavaScript, How to Code Safely in the World's Most Dangerous Language demonstrates how to create test-driven development for large-scale JavaScript applications that will stand the test of time and stay accurate through long-term use and maintenance. Taking a test-first approach to software architecture, this book walks you through several patterns and practices and explains what they are supposed to do by having you write unit tests. Write the code to pass the unit tests, so you not only develop your technique for structuring large-scale applications, but you also learn how to test your work. You'll come away with hands-on practice that results in code that is correct from the start, and has the test coverage to ensure that it stays correct during subsequent maintenance. All code is provided both in the text and on the web, so you can immediately get started designing more complete, robust applications. JavaScript has graduated from fieldvalidation scripts to full-scale applications, but many developers still approach their work as if they were writing simple scripts. If you're one of those developers, this book is the solution you need to whip your code into shape and create JavaScript applications that work. Write more concise and elegant code by thinking in JavaScript Test the implementation and use of common design patterns Master the use of advanced JavaScript features Ensure your code's conformance to your organization's standards If you're ready to step up your code and develop more complete software solutions, Reliable JavaScript is your essential resource.

Hands-On Software Engineering with Golang Achilleas Anagnostopoulos, 2020-01-24 Explore software engineering methodologies, techniques, and best practices in Go programming to build easy-to-maintain software that can effortlessly scale on demand Key FeaturesApply best practices to produce lean, testable, and maintainable Go code to avoid accumulating technical debtExplore Go's built-in support for concurrency and message passing to build high-performance applicationsScale your Go programs across machines and manage their life cycle using KubernetesBook Description Over the last few years, Go has become one of the favorite languages for building scalable and distributed systems. Its opinionated design and built-in concurrency features make it easy for engineers to author code that efficiently utilizes all available CPU cores. This Golang book distills industry best practices for writing lean Go code that is easy to test and maintain, and helps you to explore its practical implementation by creating a multi-tier application called Links 'R' Us from scratch. You'll be guided through all the steps involved in designing, implementing, testing, deploying, and scaling an application. Starting with a monolithic architecture, you'll iteratively transform the project into a service-oriented architecture (SOA) that supports the efficient out-of-core processing of large link graphs. You'll learn about various cutting-edge and advanced software engineering techniques such as building extensible data processing pipelines, designing APIs using gRPC, and running distributed graph processing algorithms at scale. Finally, you'll learn how to compile and package your Go services using Docker and automate their deployment to a Kubernetes cluster. By the end of this book, you'll know how to think like a professional software developer or engineer and write lean and efficient Go code. What you will learnUnderstand different stages of the software development life cycle and the role of a software engineerCreate APIs using gRPC and leverage the middleware offered by the gRPC ecosystemDiscover various approaches to managing package dependencies for your projectsBuild an end-to-end project from scratch and explore different strategies for scaling itDevelop a graph processing system and extend it to run in a distributed mannerDeploy Go services on Kubernetes and monitor their health using PrometheusWho this book is for This Golang programming book is for developers and software engineers looking to use Go to design and build scalable distributed systems effectively. Knowledge of Go programming and basic networking principles is required.

Advanced Reliable Software Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "Advanced Reliable Software," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Advanced Reliable Software Introduction

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