

# TESTING OBJECT-ORIENTED SYSTEMS

MODELS, PATTERNS, AND TOOLS

VOLUME 2

ROBERT V. BINDER

Foreword by Boris Beizer



# TESTING OBJECT-ORIENTED SYSTEMS

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VOLUME 1

ROBERT V. BINDER

Foreword by Boris Beizer



# Testing Object Oriented Systems Models Patterns And Tools

**Alan Monnox**



## **Testing Object Oriented Systems Models Patterns And Tools:**

**Testing Object-oriented Systems** Robert Binder,2000 More than ever mission critical and business critical applications depend on object oriented OO software Testing techniques tailored to the unique challenges of OO technology are necessary to achieve high reliability and quality Testing Object Oriented Systems Models Patterns and Tools is an authoritative guide to designing and automating test suites for OO applications This comprehensive book explains why testing must be model based and provides in depth coverage of techniques to develop testable models from state machines combinational logic and the Unified Modeling Language UML It introduces the test design pattern and presents 37 patterns that explain how to design responsibility based test suites how to tailor integration and regression testing for OO code how to test reusable components and frameworks and how to develop highly effective test suites from use cases Effective testing must be automated and must leverage object technology The author describes how to design and code specification based assertions to offset testability losses due to inheritance and polymorphism Fifteen micro patterns present oracle strategies practical solutions for one of the hardest problems in test design Seventeen design patterns explain how to automate your test suites with a coherent OO test harness framework The author provides thorough coverage of testing issues such as The bug hazards of OO programming and differences from testing procedural code How to design responsibility based tests for classes clusters and subsystems using class invariants interface data flow models hierarchic state machines class associations and scenario analysis How to support reuse by effective testing of abstract classes generic classes components and frameworks How to choose an integration strategy that supports iterative and incremental development How to achieve comprehensive system testing with testable use cases How to choose a regression test approach How to develop expected test results and evaluate the post test state of an object How to automate testing with assertions OO test drivers stubs and test frameworks Real world experience world class best practices and the latest research in object oriented testing are included Practical examples illustrate test design and test automation for Ada 95 C Eiffel Java Objective C and Smalltalk The UML is used throughout but the test design patterns apply to systems developed with any OO language or methodology 0201809389B04062001 [Testing Object-oriented Systems](#) Robert V Binder,2000 [Testing Commercial-off-the-Shelf Components and Systems](#) Sami Beydeda,Volker Gruhn,2005-08-15 Industrial development of software systems needs to be guided by recognized engineering principles Commercial off the shelf COTS components enable the systematic and cost effective reuse of prefabricated tested parts a characteristic approach of mature engineering disciplines This reuse necessitates a thorough test of these components to make sure that each works as specified in a real context Beydeda and Gruhn invited leading researchers in the area of component testing to contribute to this monograph which covers all related aspects from testing components in a context independent manner through testing components in the context of a specific system to testing complete systems built from different components The authors take the viewpoints of both component developers and component users and their

contributions encompass functional requirements such as correctness and functionality compliance as well as non functional requirements like performance and robustness Overall this monograph offers researchers graduate students and advanced professionals a unique and comprehensive overview of the state of the art in testing COTS components and COTS based systems

System Analysis and Modeling: Models and Reusability Daniel Amyot, Pau Fonseca i Casas, Gunter Mussbacher, 2014-09-24 This book constitutes the refereed papers of the proceedings of the 8th International Conference on System Analysis and Modeling SAM 2014 held in Valencia Spain in September 2014 The 18 full papers and the 3 short papers presented together with 2 keynotes were carefully reviewed and selected from 71 submissions The contributions are organized in topical sections named reuse availability safety and optimization sequences and interactions testing metrics constraints and repositories and SDL and V V

**Testing of Communicating Systems XIV** Ina Schieferdecker, Hartmut König, Adam Wolisz, 2002-03-31 Testing of Communicating Systems XIV presents the latest international results in both the theory and industrial practice of the testing of communicating systems ranging from tools and techniques for testing to test standards frameworks notations algorithms fundamentals of testing and industrial experiences and issues The tools and techniques discussed apply to conformance testing interoperability testing performance testing Internet protocols and applications and multimedia and distributed systems in general

*Analysis Patterns* Martin Fowler, 1997 Martin Fowler is a consultant specializing in object oriented analysis and design This book presents and discusses a number of object models derived from various problem domains All patterns and models presented have been derived from the author s own consulting work and are based on real business cases

Designing Software Product Lines with UML Hassan Gomaa, 2005 Designing Software Product Lines with UML is well written informative and addresses a very important topic It is a valuable contribution to the literature in this area and offers practical guidance for software architects and engineers Alan Brown Distinguished Engineer Rational Software IBM Software Group Gomaa s process and UML extensions allow development teams to focus on feature oriented development and provide a basis for improving the level of reuse across multiple software development efforts This book will be valuable to any software development professional who needs to manage across projects and wants to focus on creating software that is consistent reusable and modular in nature Jeffrey S Hammond Group Marketing Manager Rational Software IBM Software Group This book brings together a good range of concepts for understanding software product lines and provides an organized method for developing product lines using object oriented techniques with the UML Once again Hassan has done an excellent job in balancing the needs of both experienced and novice software engineers Robert G Pettit IV Ph D Adjunct Professor of Software Engineering George Mason University This breakthrough book provides a comprehensive step by step approach on how to develop software product lines which is of great strategic benefit to industry The development of software product lines enables significant reuse of software architectures Practitioners will benefit from the well defined PLUS process and rich case studies Hurley V Blankenship II

Program Manager Justice and Public Safety Science Applications International Corporation The Product Line UML based Software engineering PLUS is leading edge With the author s wide experience and deep knowledge PLUS is well harmonized with architectural and design pattern technologies Michael Shin Assistant Professor Texas Tech University Long a standard practice in traditional manufacturing the concept of product lines is quickly earning recognition in the software industry A software product line is a family of systems that shares a common set of core technical assets with preplanned extensions and variations to address the needs of specific customers or market segments When skillfully implemented a product line strategy can yield enormous gains in productivity quality and time to market Studies indicate that if three or more systems with a degree of common functionality are to be developed a product line approach is significantly more cost effective To model and design families of systems the analysis and design concepts for single product systems need to be extended to support product lines Designing Software Product Lines with UML shows how to employ the latest version of the industry standard Unified Modeling Language UML 2 0 to reuse software requirements and architectures rather than starting the development of each new system from scratch Through real world case studies the book illustrates the fundamental concepts and technologies used in the design and implementation of software product lines This book describes a new UML based software design method for product lines called PLUS Product Line UML based Software engineering PLUS provides a set of concepts and techniques to extend UML based design methods and processes for single systems in a new dimension to address software product lines Using PLUS the objective is to explicitly model the commonality and variability in a software product line Hassan Gomaa explores how each of the UML modeling views use case static state machine and interaction modeling can be extended to address software product families He also discusses how software architectural patterns can be used to develop a reusable component based architecture for a product line and how to express this architecture as a UML platform independent model that can then be mapped to a platform specific model Key topics include Software product line engineering process which extends the Unified Development Software Process to address software product lines Use case modeling including modeling the common and variable functionality of a product line Incorporating feature modeling into UML for modeling common optional and alternative product line features Static modeling including modeling the boundary of the product line and information intensive entity classes Dynamic modeling including using interaction modeling to address use case variability State machines for modeling state dependent variability Modeling class variability using inheritance and parameterization Software architectural patterns for product lines Component based distributed design using the new UML 2 0 capability for modeling components connectors ports and provided and required interfaces Detailed case studies giving a step by step solution to real world product line problems Designing Software Product Lines with UML is an invaluable resource for all designers and developers in this growing field The information technology and case studies presented here show how to harness the promise of software product lines and the practicality of the UML to take software design quality

and efficiency to the next level An enhanced online index allows readers to quickly and easily search the entire text for specific topics

**Systems Analysis and Design** Alan Dennis, Barbara Haley Wixom, David Paul Tegarden, 2002 Written primarily for undergraduate courses in systems analysis and design this textbook comprises a running case study and project throughout the volume This allows students to apply every concept of UML to systems analysis and design

*Genetic and Evolutionary Computation Conference* Hans-Georg Beyer, 2005

Real Time UML Bruce Powel Douglass, 2004 Covers UML 2.0

*Software Paradigms* Stephen H. Kaisler, 2005-03-17 Publisher Description

Object Modeling and User Interface Design Mark Van Harmelen, 2001 Object Modeling and User Interface Design merges theories with practical techniques to create methods for the design of today's systems By reading this book you will gain an understanding of the benefits of integrating object oriented analysis approaches with human computer interaction design and learn how to systematically design interactive systems for their human users

BOOK JACKET

**Systems Analysis and Design in a Changing World** John W. Satzinger, Robert B. Jackson, Stephen D. Burd, Richard Johnson, 2004 Systems analysis and design in a changing world

*Guide to the Software Engineering Body of Knowledge* Alain Abran, James W. Moore, 2004 The purpose of the Guide to the Software Engineering Body of Knowledge is to provide a validated classification of the bounds of the software engineering discipline and topical access that will support this discipline The Body of Knowledge is subdivided into ten software engineering Knowledge Areas KA that differentiate among the various important concepts allowing readers to find their way quickly to subjects of interest Upon finding a subject readers are referred to key papers or book chapters Emphases on engineering practice lead the Guide toward a strong relationship with the normative literature The normative literature is validated by consensus formed among practitioners and is concentrated in standards and related documents The two major standards bodies for software engineering IEEE Computer Society Software and Systems Engineering Standards Committee and ISO IEC JTC1 SC7 are represented in the project

**Rapid J2EE Development** Alan Monnox, 2005 The J2EE developer's practical introduction and cookbook to cost saving software engineering solutions

Metadata Solutions Adrienne Tannenbaum, 2002 Introduces concepts for organizing data within a company to make it more accessible and meaningful The author explains where databases went wrong in the 1990s describes metadata based technologies and standards and illustrates the various implementation options by depicting five distinct metadata solutions for the same problem

**GMD Report**, 2000

*The British National Bibliography* Arthur James Wells, 2002

**Вычислительные Машины И Искусственный Интеллект**, 2000

**Testing Applications on the Web** Hung Quoc Nguyen, 2001 Software engineers have developed sophisticated test methodologies that are inadequate for Web based software Distributed applications have different performance goals from desktop applications and require networking know how of the tester This work introduces the important technologies testing concepts and techniques needed to effectively run e business systems It aims to show readers how to test B2B applications B2C applications and internal applications Nguyen also offers advice about the Web

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