



# Object Oriented Software Testing A Hierarchical Approach

**John D. McGregor, David A. Sykes**



## **Object Oriented Software Testing A Hierarchical Approach:**

**Object-Oriented Software Testing** Shel Siegel, Robert J. Muller, 1996-07-27 An important new object oriented testing approach that gives you greater reusability improved software quality and reduced development costs Integration testing black box testing regression testing requirements testing all of these can be highly effective approaches when applied to conventional top down or structured software development But object oriented developers are discovering that the procedural approach to testing is not sufficient when applied to the kind of software they develop As author Shel Siegel clearly demonstrates in this groundbreaking book object oriented software development requires a radically different testing approach one that incorporates a new set of strategies testing procedures customized for objects and components and an integrated specialized object oriented testing infrastructure Now in *Object Oriented Software Testing* he specifies the OO testing system its objects environment tools and procedures and shows you how to use them to optimize your object oriented development efforts The hierarchical approach described in this book is the first testing scheme designed specifically to address the unique goals and concerns inherent to object oriented development projects In case after case it yields nothing less than remarkable results greater reusability higher software quality and consistently lower development costs than those incurred during structured applications development The first book to explore one of the most important developments in software engineering in recent years *Object Oriented Software Testing* is an important addition to your software development library

*Software Testing in the Cloud: Perspectives on an Emerging Discipline* Tilley, Scott, Parveen, Tauhida, 2012-11-30 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 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

*SOFTWARE TESTING* DESAI, SANDEEP, SRIVASTAVA, ABHISHEK, 2016-01-30 This thoroughly revised and updated book now in its second edition intends to be much more comprehensive book on software testing The treatment of the subject in the second edition maintains to provide an insight into the practical aspects of software testing along with the recent technological development in the field as in the previous edition but with significant additions These changes are designed to provide in depth understanding of the key concepts Commencing with the introduction the book builds up the basic concepts of quality and software testing It then elaborately discusses the various facets of verification and validation methodologies of both static testing and dynamic testing of the software covering the concepts of structured group examinations control flow and data flow unit testing integration testing system testing and acceptance testing The text also

focuses on the importance of the cost benefit analysis of testing processes test automation object oriented applications client server and web based applications The concepts of testing commercial off the shelf COTS software as well as object oriented testing have been described in detail Finally the book brings out the underlying concepts of usability and accessibility testing Career in software testing is also covered in the book The book is intended for the undergraduate and postgraduate students of computer science and engineering for a course in software testing NEW TO THE SECOND EDITION New chapters on o Verification and Validation o Usability and Accessibility Testing o Career in Software Testing Numerous case studies Revamped chapters on Dynamic Testing interaction testing and retrospection included Testing Specialised Systems mobile testing included and Object Oriented Testing *SOFTWARE TESTING* SANDEEP DESAI,ABHISHEK

SRIVASTAVA,2012-01-19 This concise text provides an insight into practical aspects of software testing and discusses all the recent technological developments in this field including quality assurance The book also illustrates the specific kinds of problems that software developers often encounter during development of software The book first builds up the basic concepts inherent in the software development life cycle SDLC It then elaborately discusses the methodologies of both static testing and dynamic testing of the software covering the concepts of structured group examinations control flow and data flow unit testing integration testing system testing and acceptance testing The text also focuses on the importance of the cost benefit analysis of testing processes The concepts of test automation object oriented applications client server and web based applications have been covered in detail Finally the book brings out the underlying concepts of commercial off the shelf COTS software applications and describes the testing methodologies adopted in them The book is intended for the undergraduate and postgraduate students of computer science and engineering for a course in software testing KEY FEATURES Provides real life examples illustrative diagrams and tables to explain the concepts discussed Gives a number of assignments drawn from practical experience to help the students in assimilating the concepts in a practical way Includes model questions in addition to a large number of chapter end review questions to enable the students to hone their skills and enhance their understanding of the subject matter *Dr. Dobb's Journal* ,1997 **Evolutionary Computation and**

**Optimization Algorithms in Software Engineering: Applications and Techniques** Chis, Monica,2010-06-30

Evolutionary Computation and Optimization Algorithms in Software Engineering Applications and Techniques lays the foundation for the successful integration of evolutionary computation into software engineering It surveys techniques ranging from genetic algorithms to swarm optimization theory to ant colony optimization demonstrating their uses and capabilities These techniques are applied to aspects of software engineering such as software testing quality assessment reliability assessment and fault prediction models among others to providing researchers scholars and students with the knowledge needed to expand this burgeoning application **Embedded Software System Testing** Yongfeng Yin,Bo Jiang,2023-09-06 This book introduces embedded software engineering and management methods proposing the relevant

testing theory and techniques that promise the final realization of automated testing of embedded systems The quality and reliability of embedded systems have become a great concern faced with the rising demands for the complexity and scale of system hardware and software The authors propose and expound on the testing theory and techniques of embedded software systems and relevant environment construction technologies providing effective solutions for the automated testing of embedded systems Through analyzing typical testing examples of the complex embedded software systems the authors verify the effectiveness of the theories technologies and methods proposed in the book In combining the fundamental theory and technology and practical solutions this book will appeal to researchers and students studying computer science software engineering and embedded systems as well as professionals and practitioners engaged in the development verification and maintenance of embedded systems in the military and civilian fields

*Software Testing and Quality Assurance* Kshirasagar Naik, Priyadarshi Tripathy, 2011-09-23 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 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 software testing quality assurance and software engineering

**Application-specific Systems and Software Engineering & Technology** IEEE Computer Society, 1999 This text looks at the design and development of application specific software It covers topics such as networking engineering software and systems engineering security issues multimedia and information systems software reliability issues and tools for software and systems

**Dependable Systems and Networks (DSN 2001) (Formerly FTCS)** IEEE Computer Society, IEEE, PR&&&&, 2001 Proceedings of a July 2001 conference covering all aspects of dependability in classical and networked computer systems as well as topical areas in IT There is a special focus on safety and security issues in embedded multimedia and Internet applications Papers are in sections on modeling algorithms software demos replication software robustness survivability and security wireless and mobile communications real time testing and runtime error detection models for fault tolerance hardware architecture and design group oriented systems and practical experiences Specific topics include model based synthesis of fault trees from MATLAB a dynamic replica selection algorithm for tolerating timing faults constructing self testable software components and intrusion tolerant group

management in enclaves This volume lacks a subject index c Book News Inc      **Software Engineering: A Practitioner's Approach** Roger S. Pressman, 2010 For over 20 years this has been the best selling guide to software engineering for students and industry professionals alike This seventh edition features a new part four on web engineering which presents a complete engineering approach for the analysis design and testing of web applications      Reusable Strategies for Testing Safety-critical Systems Mustafa Hashim Poonawala, 1999      *Object Oriented Analysis, Design and Testing* Eric J. Braude, 1998 These papers on object oriented analysis and design cover overviews of the object oriented paradigm methodologies requirements analysis for applications OO design and design patterns and testing and maintenance of OO applications      *Best Software Practices for the Internet Age*, 1999 The 42 papers workshop and panel discussion reports and tutorials describe efforts to improve standards that could benefit all users in industry government and academia Among the main themes are national software engineering activities systems current standards experience and use of standard

**Object Magazine**, 1996      **Proceedings**, 1999      *Software Testing and Analysis* Mauro Pezze, Michal Young, 2008 Teaches readers how to test and analyze software to achieve an acceptable level of quality at an acceptable cost Readers will be able to minimize software failures increase quality and effectively manage costs Covers techniques that are suitable for near term application with sufficient technical background to indicate how and when to apply them Provides balanced coverage of software testing analysis approaches By incorporating modern topics and strategies this book will be the standard software testing textbook      **Journal of Object-oriented Programming**, 1998      **Testing Object-Oriented Software** David C. Kung, Chen-Ho Kung, Pei Hsia, Jerry Gao, 1998-11-10 Object oriented programming increases software reusability extensibility interoperability and reliability Software testing is necessary to realize these benefits Software testing aims to uncover as many programming errors as possible at a minimum cost A major challenge to the software engineering community remains how to reduce the cost and improve the quality of software testing The requirements for testing object oriented programs differ from those for testing conventional programs Testing Object Oriented Software illustrates these differences and discusses object oriented software testing problems focusing on the difficulties and challenges testers face The book provides a general framework for class and system level testing and examines object oriented design criteria and high testability metrics It offers object oriented testing techniques ideas and methods for unit testing and object oriented program integration testing strategy Readers are shown how they can drastically reduce regression test costs presented with steps for object oriented testing and introduced to object oriented test tools and systems In addition to software testing problems the text covers various test methods developers can use during the design phase to generate programs with good testability The book's intended audience includes object oriented program testers program developers software project managers and researchers working with object oriented testing      **First International Conference on Software Testing, Reliability, and Quality Assurance**, 1994

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