

Practical Model Based Testing A Tools Approach

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Model-Based Testing
Essentials - Guide to the ISTQB Certified Model-Based Tester
The Craft of Model-Based Testing
Model-Based Testing for Embedded Systems
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A Framework for Observation-based Modelling in Model-based Testing
Software Testing
Industrialization
Adapting Model-based Testing to Agile Context
Model-Based Software Testing and Analysis with C#
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Software Testing and Analysis
Integrating Contract-based Testing Into Model-driven Software Development
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Holistic Use of Analysis Models in Model-based System Testing
Model-Based Testing in Practice
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practical model based testing gives a practical introduction to model based testing showing how to write models for testing purposes and how to use model based testing tools to generate test suites it is aimed at testers and software developers who wish to use model based testing rather than at tool developers or academics the book focuses on the mainstream practice of functional black box testing and covers different styles of models especially transition based models uml state machines and pre post models uml ocl specifications and b notation the steps of applying model based testing are demonstrated on examples and case studies from a variety of software domains including embedded software and information systems from this book you will learn the basic principles and terminology of model based testing how model based testing differs from other testing processes how model based testing fits into typical software lifecycles such as agile methods and the unified process the benefits and limitations of model based testing its cost effectiveness and how it can reduce time to market a step by step process for applying model based testing how to write good models for model based testing how to use a variety of test selection criteria to control the tests that are generated from your models how model based testing can connect to existing automated test execution platforms such as mercury test director java junit and proprietary test execution environments presents the basic principles and terminology of model based testing shows how model based testing fits into the software lifecycle its cost effectiveness and how it can reduce time to market offers guidance on how to use different kinds of modeling techniques useful test generation strategies how to apply model based testing techniques to real applications using case studies

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provides a practical and comprehensive introduction to the key aspects of model based testing as taught in the istqb model based tester foundation level certification syllabus this book covers the essentials of model based testing mbt needed to pass the istqb foundation level model based tester certification the text begins with an introduction to mbt covering both the benefits and the limitations of mbt the authors review the various approaches to model based testing explaining the fundamental processes in mbt the different modeling languages used common good modeling practices and the typical mistakes and pitfalls the book explains the specifics of mbt test implementation the dependencies on modeling and test generation activities and the steps required to automate the generated test cases the text discusses the introduction of mbt in a company presenting metrics to measure success and good practices to apply provides case studies illustrating different approaches to model based testing includes in text exercises to encourage readers to practice modeling and test generation activities contains appendices with solutions to the in text exercises a short quiz to test readers along with additional information model based testing essentials guide to the istqb certified model based tester foundation level is written primarily for participants of the istqb certification software engineers test engineers software developers and anybody else involved in software quality assurance this book can also be used for anyone who wants a deeper understanding of software testing and of the use of models for test generation

in his latest work author paul c jorgensen takes his well honed craftsman s approach to mastering model based testing mbt to be expert at mbt a software tester has to understand it as a craft rather than an art this means a tester should have deep knowledge of the underlying subject and be well practiced in carrying out modeling and testing techniques judgment is needed as well as an understanding of mbt the tools the first part of the book helps testers in developing that judgment it starts with an overview of mbt and follows with an in depth treatment of nine different testing models with a chapter dedicated to each model these chapters are tied together by a pair of examples a simple insurance premium calculation and an event driven system

that describes a garage door controller the book shows how simpler models flowcharts decision tables and uml activity charts express the important aspects of the insurance premium problem it also shows how transition based models finite state machines petri nets and statecharts are necessary for the garage door controller but are overkill for the insurance premium problem each chapter describes the extent to which a model can support mbt the second part of the book gives testers a greater understanding of mbt tools it examines six commercial mbt products presents the salient features of each product and demonstrates using the product on the insurance premium and the garage door controller problems these chapters each conclude with advice on implementing mbt in an organization the last chapter describes six open source tools to round out a tester's knowledge of mbt in addition the book supports the international software testing qualifications board's istqb mbt syllabus for certification

what the experts have to say about model based testing for embedded systems this book is exactly what is needed at the exact right time in this fast growing area from its beginnings over 10 years ago of deriving tests from uml statecharts model based testing has matured into a topic with both breadth and depth testing embedded systems is a natural application of mbt and this book hits the nail exactly on the head numerous topics are presented clearly thoroughly and concisely in this cutting edge book the authors are world class leading experts in this area and teach us well used and validated techniques along with new ideas for solving hard problems it is rare that a book can take recent research advances and present them in a form ready for practical use but this book accomplishes that and more i am anxious to recommend this in my consulting and to teach a new class to my students dr jeff offutt professor of software engineering george mason university fairfax virginia usa this handbook is the best resource i am aware of on the automated testing of embedded systems it is thorough comprehensive and authoritative it covers all important technical and scientific aspects but also provides highly interesting insights into the state of practice of model based testing for embedded systems dr lionel c briand ieee fellow simula research laboratory lysaker norway and professor at the university of oslo norway as model based testing is entering the mainstream such a comprehensive and intelligible book is a must read for anyone looking for more information about improved testing methods for embedded systems illustrated with numerous aspects of these techniques from many contributors it gives a clear picture of what the state of the art is today dr bruno legeard cto of smartesting professor of software engineering at the university of franche comté besançon france and co author of practical model based testing

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based testing as taught in the istqb model based tester foundation level certification syllabus this book covers the essentials of model based testing mbt needed to pass the istqb foundation level model based tester certification the text begins with an introduction to mbt covering both the benefits and the limitations of mbt the authors review the various approaches to model based testing explaining the fundamental processes in mbt the different modeling languages used common good modeling practices and the typical mistakes and pitfalls the book explains the specifics of mbt test implementation the dependencies on modeling and test generation activities and the steps required to automate the generated test cases the text discusses the introduction of mbt in a company presenting metrics to measure success and good practices to apply provides case studies illustrating different approaches to model based testing includes in text exercises to encourage readers to practice modeling and test generation activities contains appendices with solutions to the in text exercises a short quiz to test readers along with additional information model based testing essentials guide to the istqb certified model based tester foundation level is written primarily for participants of the istqb certification software engineers test engineers software developers and anybody else involved in software quality assurance this book can also be used for anyone who wants a deeper understanding of software testing and of the use of models for test generation

this monograph deals with testing regression models based on sample survey data it includes modelling survey data and outlines some tests of the standard symmetric ssmn and symmetric smn multivariate normal distribution testing for block effects in two stage and multi stage linear regression models is discussed as is optimal testing for serial correlation in a large number of small samples

in the context of software engineering test automation as a field of research has been around for a very long time yet testing and related concepts are still generally considered to be one of the most time consuming and expensive parts of the software life cycle although it is a field with a relatively long research background many existing test automation systems are still relatively simple and not very different from the early days they still focus on executing an existing usually manually crafted set of tests over and over again one approach that has also been around for a relatively long time but has only recently begun to attract considerable interest in the domain of software testing is model based testing in model based testing the system under test is represented by a model describing its expected behaviour at a higher abstraction level and a set of chosen algorithms are used to generate tests from this model currently these models need to be manually crafted from the specification this thesis presents an approach for observation based modelling in model based testing and aims to

provide automated assistance for model creation this includes design and architectural solutions to support observation and testing of the system analysis of different types of executions used as a basis for observations and finally combines the different viewpoints to provide automated tool support to generate an initial test model based on the captured observations that is suitable for use in model based testing this model is then refined and verified against the specification as the approach reverses the traditional model based testing approach of going from specification to implementation to going from implementation to specification guidelines for its application are also presented the research uses a constructive approach in which a problem is identified a construct to address the problem is designed and implemented and finally the results are evaluated the approach has been evaluated in the context of a practical system in which its application discovered several previously unknown bugs in the implementation of the system under test its effectiveness was also demonstrated by generating a highly complete model and showing how the completed model provides additional test coverage both in terms of code covered and injected faults discovered test mutants killed

this book gives a realistic overview of model based testing its values and prerequisites for success when deploying the approach in a software testing industrialization perspective the text shows how to save time and lower costs while raising quality in the phases of system testing acceptance testing and more generally all functional testing phases key features details the key role of model based testing to ensure continuity in the software testing industrialization process describing how each step could be implemented uses detailed examples the actitime application to teach techniques of model based testing including modeling guidelines test generation strategies and automated test execution offers a companion website which makes available machine readable versions of case studies and examples used in the book as well as presentation slides

this study concentrates on model based testing in agile software developing context model based testing is a software testing technique in which tests are generated from a model test can be executed separately later or in motion during the generation special focus is placed on examining the adaptability of model based testing to agile software developing context the purposes of this study were to find guidelines for model based testing tool selection and to evaluate most suitable tool in agile context in case study first was performed literature survey where found criteria for model based testing tools selection based on literature survey was analyzed available tools carefully based on literature review and evaluation was made a collection of guidelines for tool selection and selected one tool for case study the case study aims to evaluate

model based testing suitability for agile developing project this case study had two purposes the first goal was to present model based testing usage in agile process and the second goal was to evaluate model based testing suitability in agile context based on empirical findings it was concluded that model based testing can be performed in agile process

this book teaches model based analysis and model based testing with important new ways to write and analyze software specifications and designs generate test cases and check the results of test runs these methods increase the automation in each of these steps making them more timely more thorough and more effective using a familiar programming language testers and analysts will learn to write models that describe how a program is supposed to behave the authors work through several realistic case studies in depth and detail using a toolkit built on the c language and the net framework readers can also apply the methods in analyzing and testing systems in many other languages and frameworks intended for professional software developers including testers and for university students this book is suitable for courses on software engineering testing specification or applications of formal methods

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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

model based testing mbt aims at improving the manual test design process by using test models for automated test case generation which is systematic and efficient however mbt is not for free test models must be created and maintained tools and techniques for test case generation and execution are required furthermore testing

activities must be integrated into the model driven development process for a seamless integration of the development and test processes. Models should be interchangeable between developers and testers at each stage of the development process. This poses challenges for both developers and testers in their modeling, implementing and testing activities. Most of the existing approaches propose using detailed and complete models for development and testing, which requires advanced modeling skills and tools. Experts agree that these challenges are the main reasons why model driven development is still not there. It needs to be a reaction. A former work proposed using visual contracts for a light weight and semi-automated development process; however, the questions regarding testing and its integration remained unanswered in this thesis. We fill this gap and extend the proposed development process by a visual contract based testing process. Our approach proposes using visual contracts as a test basis for an automated test process. Thereby, test cases and test scripts are systematically derived from visual contracts using formal selection criteria. The visual contract language follows the design by contract paradigm, resulting in intuitive test models specifying preconditions and postconditions for test object operations. Visual contracts allow creating partial models, enabling starting testing activities before all implementation details are known.

Services only expose interface level information, abstracting away implementation details. Testing is a time consuming and resource intensive activity; therefore, it is important to minimize the set of test cases executed without compromising quality. Since white box testing techniques and traditional structural coverage criteria require access to code, we require a model based approach for web service testing. Testing relies on oracles to provide expected outcomes for test cases and, if implemented manually, they depend on testers' understanding of functional requirements to decide the correct response of the system on every given test case. As a result, they are costly in creation and maintenance and their quality depends on the correct interpretation of the requirements. Alternatively, if suitable specifications are available, oracles can be generated automatically at lower cost and with better quality. We propose to specify service operations as visual contracts with executable formal specifications as rules of a typed attributed graph transformation system. We associate operation signatures with these rules for providing test oracles. We analyze dependencies and conflicts between visual contracts to develop a dependency graph. We propose model based coverage criteria considering this dependency graph to assess the completeness of test suites. We also propose a mechanism to find out which of the potential dependencies and the conflicts were exercised by a given test case. While executing the tests, the model is simulated and coverage is recorded as well as measured against the criteria. The criteria are formalized and the dynamic detection of conflicts and dependencies is

developed this requires keeping track of occurrences and overlaps of pre and post conditions their enabling and disabling in successive model states and interpreting these in terms of the static dependency graph systems evolve over time and need retesting each time there is a change in order to verify that the quality of the system is maintained we use regression testing since regression test suites tend to be large we isolate the affected part in the system only retesting affected parts by rerunning a selected subset of the total test suite we analyze the test cases that were executed on both versions and propose a mechanism to transfer the coverage provided by these test cases this information helps us to assess the completeness of the test suite on the new version without executing all of it

truncated abstract software component testing sct is a proven software engineering approach to evaluating improving and demonstrating component reliability and quality for producing trusted software components which is critical to support the success of component based software engineering model based testing mbt of software components enables the utilisation of a consistent model based approach and specification e g uml models for effective component development and testing however advancing from model based development to mbt poses certain crucial challenging problems that remain unresolved and hamper the utilisation of sct mbt and further research is thus required to address those problems to achieve the goal of desirable sct mbt effectiveness this thesis has comprehensively reviewed the important concepts principles characteristics and techniques of sct mbt in the literature to provide a solid foundation for this research and introduced a set of useful new concepts and definitions to form the first major part of the thesis s original contributions as follows 1 in the research areas of software components and software component testing a a new comprehensive taxonomy of software component characteristics b a new software component definition c a new definition of software component testing d a useful taxonomy of software component testing techniques e a practical taxonomy of component testability improvement approaches 2 in the research areas of model based testing and uml based testing a a study of model based tests b a new definition of model based testing c a new test model definition d a new definition of uml based testing e a core uml subset for sct f a study and review of use case driven testing and scenario based testing the principal original contribution of this thesis is to introduce a novel hybrid sct methodology called model based software component testing mbsct which consists of five major methodological components a three phase testing framework six main methodological features and six core testing capabilities in more detail 1 the model based integrated sct process incorporates software component development and testing into a unified uml based software process as part of the software development lifecycle which provides a useful

process model for the entire mbsct methodology this process supports the use of a consistent uml based approach and specification for systematically developing test models and model based component tests 2 the scenario based component integration testing technique focuses testing priority on identifying and constructing appropriate test scenarios to exercise and examine crucial deliverable component functions with the associated operational use case scenarios e g behavioural instances and integration scenarios this technique specifically supports the development of scenario based test models and scenario based test cases for component integration testing that bridges component unit testing and component system testing

the current industrial trend to increasing complexity and functionality in software and electronic components leads to an ever growing demand for software quality combined with an increasing error proneness which is also related to shortened development times in order to remain competitive an early and continuous consideration and assurance of system quality becomes an asset of ever increasing importance in industrial software development model based approaches help not only in effective quality assurance but help also to evaluate and control the coverage costs and risks related to the testing efforts both the effectiveness and the efficiency of testing can be handled by model based approaches within integrated system and test development for software intense systems currently model based testing considers selected aspects of system models in isolation e g structural or behavioural models this means that the methods are of limited applicability and that they also do not scale with respect to the size and conceptual complexity of real systems the testing workshop at ecmda seeks to provide answers to the many open issues related to model driven testing

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