



# Practical Model-Based Testing: A Tools Approach

*By Mark Utting, Bruno Legeard*

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## **Practical Model-Based Testing: A Tools Approach** By Mark Utting, Bruno Legeard

This book 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
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- \* 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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"This topic is hot...and both authors are well known experts in the community of model-based testing."  
—Wolfgang Grieskamp, Microsoft Research

#### **About the Author**

Directeur technique de la societe Smartesting et professeur a l'universite de Franche-Comte

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