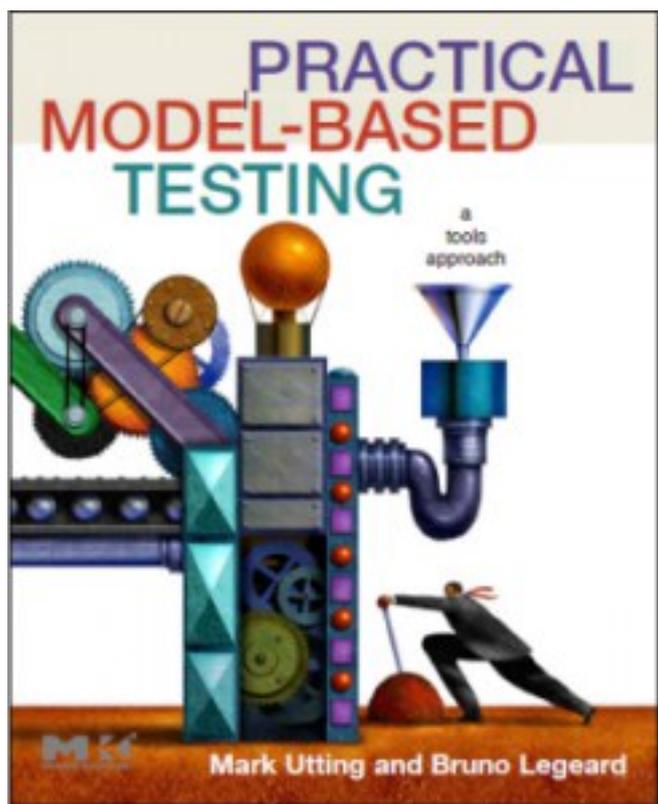# Practical Model-Based Testing

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著者:Utting, Mark/ Legeard, Bruno

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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; and how model-based testing can connect to existing automated test execution platforms such as Mercury Test Director, Java JUnit, and proprietary test execution environments. This book shows how model-based testing fits into the software lifecycle, its cost-effectiveness, and how it can reduce time to market. It 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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