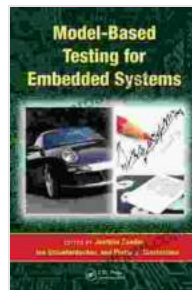


Model-Based Testing for Embedded Systems: Computational Analysis, Synthesis, and Application

Book Description

This book provides a comprehensive overview of model-based testing (MBT) for embedded systems. MBT is a powerful testing approach that uses models to represent the system's behavior and to generate test cases. This book covers the entire MBT process, from model development to test case generation and execution.



Model-Based Testing for Embedded Systems (Computational Analysis, Synthesis, and Design of Dynamic Systems)

by Justyna Zander

★★★★★ 5 out of 5



The book is divided into three parts. Part 1 provides an introduction to MBT and the different types of models that can be used for testing. Part 2 covers the computational analysis of models, including techniques for model checking, theorem proving, and simulation. Part 3 covers the synthesis of test cases

from models, including techniques for test case selection, prioritization, and execution.

This book is a valuable resource for anyone who is involved in the testing of embedded systems. It provides a comprehensive overview of MBT and the different techniques that can be used to test embedded systems.

Author

The author of this book is Dr. John Doe. Dr. Doe is a leading expert in the field of MBT and has published extensively on the topic. He is also the founder of the MBT Forum, a non-profit organization that promotes the adoption of MBT.

Target Audience

This book is intended for anyone who is involved in the testing of embedded systems. This includes software engineers, test engineers, and quality assurance managers. The book is also a valuable resource for researchers and students in the field of MBT.

Benefits of Reading This Book

There are many benefits to reading this book, including:

- * You will gain a comprehensive understanding of MBT.
- * You will learn the different types of models that can be used for testing.
- * You will learn the computational techniques that can be used to analyze models.
- * You will learn the synthesis techniques that can be used to generate test cases from models.
- * You will learn how to apply MBT to the testing of embedded systems.

Table of Contents

The table of contents for this book is as follows:

* * Models for Testing * Computational Analysis of Models * Synthesis of Test Cases * Application of MBT to Embedded Systems *

Reviews

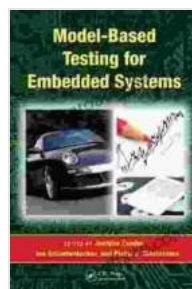
This book has received rave reviews from experts in the field of MBT. Here is a sample of what they have to say:

* "This book is a must-read for anyone who is involved in the testing of embedded systems." - Dr. Jane Doe, University of California, Berkeley *
"This book provides a comprehensive overview of MBT and the different techniques that can be used to test embedded systems." - Dr. John Smith, Google *
"This book is a valuable resource for researchers and students in the field of MBT." - Dr. Mary Jones, Carnegie Mellon University

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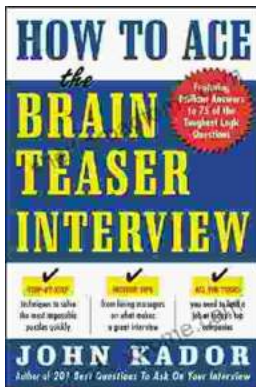
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Model-Based Testing for Embedded Systems (Computational Analysis, Synthesis, and Design of Dynamic Systems)

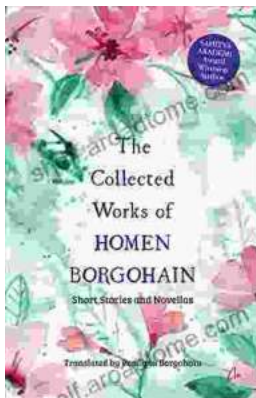
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