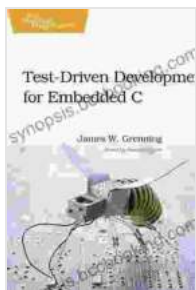


Test Driven Development for Embedded Pragmatic Programmers: An Essential Guide

Test Driven Development (TDD) is a software development process that emphasizes writing tests for your code before you write the code itself. This helps to ensure that your code is reliable, maintainable, and easy to debug.



Test Driven Development for Embedded C (Pragmatic Programmers) by James W. Grenning

★★★★☆ 4.6 out of 5

Language : English
File size : 4090 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 584 pages



TDD is particularly important for embedded systems, where code defects can have serious consequences. Embedded systems are often used in critical applications, such as medical devices, automotive systems, and industrial control systems. A single bug in an embedded system can lead to a system failure, which can have catastrophic consequences.

Test Driven Development for Embedded Pragmatic Programmers will teach you how to write test-driven code for embedded systems. This book covers all aspects of TDD, from writing unit tests to integration tests to regression tests.

You will learn how to use TDD to:

- Write high-quality code that is reliable, maintainable, and easy to debug
- Reduce the risk of defects in your embedded systems
- Improve the quality of your software development process

Test Driven Development for Embedded Pragmatic Programmers is the definitive guide to writing test-driven code for embedded systems. This book is essential reading for any embedded software developer who wants to write high-quality code that is reliable, maintainable, and easy to debug.

What's Inside

Test Driven Development for Embedded Pragmatic Programmers covers all aspects of TDD, from writing unit tests to integration tests to regression tests. This book is divided into three parts:

1. **Part 1: to TDD**
2. **Part 2: Writing Unit Tests**
3. **Part 3: Writing Integration and Regression Tests**

Part 1: to TDD

Part 1 of this book provides an overview of TDD. You will learn what TDD is, why it is important, and how to get started with TDD.

Part 2: Writing Unit Tests

Part 2 of this book covers the basics of writing unit tests. You will learn how to write unit tests for different types of code, including functions, classes, and methods.

Part 3: Writing Integration and Regression Tests

Part 3 of this book covers the basics of writing integration and regression tests. You will learn how to write integration tests to test the interactions between different parts of your code, and how to write regression tests to ensure that your code does not break when you make changes.

About the Author

Andreas Zeller is a professor of computer science at the University of Saarland in Germany. He is the author of several books on software testing, including *Testing Object-Oriented Software* and *Test-Driven Development for Embedded Systems*.

Zeller is a leading expert in the field of software testing. He has developed several innovative testing techniques, including the Zeller-Lippmann algorithm for unit test generation.

Zeller is a passionate advocate for TDD. He believes that TDD is an essential software development practice that can help to improve the quality of software and reduce the risk of defects.

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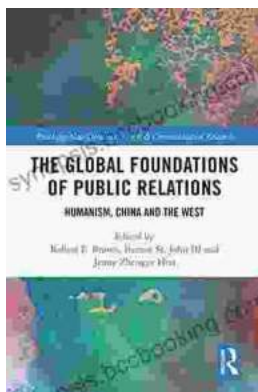
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