

Software Fault Injection

*Inoculating
Programs
Against Errors*

Jeffrey M. Voas
and Gary McGraw



Includes CD-ROM

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Clifford Lane



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Huang, 2009-08-06 An in depth review of key techniques in software error detection Software error detection is one of the most challenging problems in software engineering Now you can learn how to make the most of software testing by selecting test cases to maximize the probability of revealing latent errors Software Error Detection through Testing and Analysis begins with a thorough discussion of test case selection and a review of the concepts notations and principles used in the book Next it covers Code based test case selection methods Specification based test case selection methods Additional advanced topics in testing Analysis of symbolic trace Static analysis Program instrumentation Each chapter begins with a clear introduction and ends with exercises for readers to test their understanding of the material Plus appendices provide a logico mathematical background glossary and questions for self assessment Assuming a basic background in software quality assurance and an ability to write nontrivial programs the book is free of programming languages and paradigms used to construct the program under test Software Error Detection through Testing and Analysis is suitable as a professional reference for software testing specialists software engineers software developers and software programmers It is also appropriate as a textbook for software engineering software testing and software quality assurance courses at the advanced undergraduate and graduate levels Computer Safety, Reliability, and Security Floor Koornneef, Meine van der

Meulen, 2003-06-29 This book constitutes the refereed proceedings of the 19th International Conference on Computer Safety Reliability and Security SAFECOMP 2000 held in Rotterdam The Netherlands in October 2000 The 33 revised full papers presented together with three invited papers were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on verification and validation software process improvement formal methods safety guidelines standards and certification hardware aspects safety assessment design for safety and transport and infrastructure

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