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NIST's EO-mandated software security guidelines could be a game-changer

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and tools that can be
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and deployment. On
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software evolution

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principles with abundant examples in order to help the readers to understand the theories, techniques, and principles easily. The common techniques that are most useful in practice based on industry experiences are discussed in this book. The main techniques discussed

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equivalence
partitions,
combinatorial testing,
decision table testing,
and various structural
testing techniques.

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principles and
regression testing are
covered in part 3 of
the book, with two
case studies to apply
some of the basic

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chapters, especially the ones on testing techniques, and it's designed to be used as a reference or a textbook to students who are taking classes in software testing related subjects.

Explains the
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importance of the test-driven environment in assuring quality while developing software, introducing patterns, principles, and techniques for testing any software system.

One-stop Guide to software testing types, software errors, and planning process
DESCRIPTION

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Software testing is conducted to assist testers with information to improvise the quality of the product under testing. The book primarily aims to present testing concepts, principles, practices, methods cum approaches used in practice. The book will help the readers

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to learn and detect faults in software before delivering it to the end user. The book is a judicious mix of software testing concepts, principles, methodologies, and tools to undertake a professional course in software testing. The book will be a useful resource for students,

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industry experts, and
software architects to
learn artefacts of
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the foundation and
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testing, then it
discusses the levels,
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software testing. In the further chapters it will gives a comprehensive overview of software errors faced in software testing as well as various techniques for error detection, then the test case development and security testing. In the last section of the

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The readers should have a basic understanding of software engineering concepts, object-

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oriented programming
and basic
programming
fundamentals. Table

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achieve or ascertain,
as well as the lifecycle
of software testing.

Part II covers
mathematical
foundations of
software testing,
which include
software specification,
program correctness
and verification,
concepts of software
dependability, and a
software testing

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and software product
line testing. Presents
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technique, but as part
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discipline of software
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validation Proposes
program testing and
program correctness
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