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software test cases are formally defined, software testing techniques are presented, and crucial strategies, principles, and practices one can follow in real life scenarios are discussed. The author tries to present simple and clear concepts,

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and then systematically advance from basic concepts to testing techniques and principles with abundant examples in order to help the readers to understand the theories, techniques, and principles easily. The common techniques that

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are most useful in practice based on industry experiences are discussed in this book. The main techniques discussed extensively are equivalence partitions, combinatorial testing, decision table testing, and various structural

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testing techniques. Basic testing principles and regression testing are covered in part 3 of the book, with two case studies to apply some of the basic techniques and principles discussed in the book. Performance testing is also covered in great

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details with three real life case studies. The author also defined test cases and types of testing in a new original and fundamental way which are never published anywhere else. This book is targeted mainly to software quality engineers but

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should be valuable to software developers and other IT personals. The book is written in a textbook style, and there are also numerous exercise problems at the end of most chapters, especially the ones on testing techniques, and it's designed

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companies producing software-intensive systems, where hundreds or even thousands of engineers collaborate to deliver on new systems and new versions of already deployed ones. It is based on the findings collected and lessons

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*Corporation, Saab Electronic
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and Sony Mobile as industrial
partners. The 17 chapters present
the “Stairway to Heaven” model,
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evolution path companies move through as they develop and mature their software engineering capabilities. The chapters describe theoretical frameworks, conceptual models and, most importantly, the industrial experiences gained by the

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partner companies in applying novel software engineering techniques.

The book's structure consists of six parts. Part I describes the model in detail and presents an overview of lessons learned in the collaboration between industry and academia.

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Part II deals with the first step of the Stairway to Heaven, in which R&D adopts agile work practices. Part III of the book combines the next two phases, i.e., continuous integration (CI) and continuous delivery (CD), as they are closely intertwined. Part

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IV is concerned with the highest level, referred to as “R&D as an innovation system,” while Part V addresses a topic that is separate from the Stairway to Heaven and yet critically important in large organizations: organizational

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performance metrics that capture data, and visualizations of the status of software assets, defects and teams. Lastly, Part VI presents the perspectives of two of the SC partner companies. The book is intended for practitioners and

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professionals in the software-intensive systems industry, providing concrete models, frameworks and case studies that show the specific challenges that the partner companies encountered, their approaches to overcoming them,

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and the results. Researchers will gain valuable insights on the problems faced by large software companies, and on how to effectively tackle them in the context of successful cooperation projects.

This book will teach you how to test

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computer software under real-world conditions. The authors have all been test managers and software development managers at well-known Silicon Valley software companies. Successful consumer software companies have learned

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knowledge of testing fundamentals and should be able to correlate that knowledge with the experience you have learned while working as a tester on a software project. This book will teach you both,

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the first half of the book provides a detailed explanation of the fundamentals of software testing and the second half focuses on a step by step walk-through of a real-life testing project. This will

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help you to understand how the real software projects are run from start to end and where the testing fits in the big picture of the project lifecycle. The book provides details of each testing activities which

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will help you to understand how the test activities are planned, executed and monitored in real projects. This book is a roadmap, a guide to understanding the bits and pieces of software testing and how you can

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cannot accomplish. Rejecting the automation life cycle model, the authors favor limited automation of unit, integration, and system testing. They also present a control synchronized data-driven framework to help jump-start an automation project. Examples are

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