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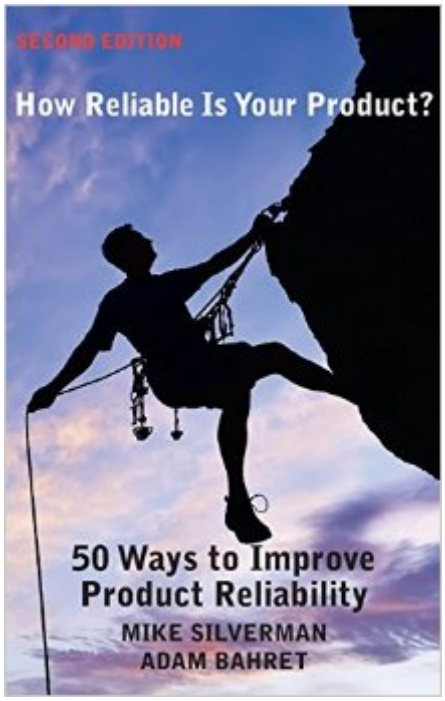
How Reliable Is Your Product? (Second Edition): 50 Ways To Improve Product Reliability



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Synopsis

Traditionally, the way to test a product’s reliability was to build it--and then try to break it. As systems and technologies improved, TAAF (Test, Analyze, and Fix) methodologies were developed and adopted. In today’s global economy with its short, technologically-intense product life cycles, TAAF cannot suffice. Reliability can no longer be a step or a series of steps in product development; it is something that needs to be acknowledged upfront and built into the product from its very conception. Reliability, in other words, must be "designed in." Product developers now have many tools--software and hardware--at their disposal for building reliability in from the get-go. From the organizational point of view, what better way to design in reliability than to make designers themselves responsible for the reliability of their designs? As Mike Silverman and Adam Bahret explain in "How Reliable Is Your Product?," this is why the role of the reliability engineer is changing to one of mentor. Product developers are now responsible for going out and finding the best testing tools and then training the designers on their use, so designers can factor and build in reliability at every stage of product design. Mike and Adam have focused on reliability throughout their career and have observed how the position of reliability in the organization evolved. In this book, they condense their expertise and experience into a volume of immense practical worth to the engineering and engineering management communities, including designers, manufacturing engineers, and reliability/quality engineers. Among other things, Mike and Adam discuss how reliability fits, or should fit, within the product design cycle. They provide a high-level overview of reliability techniques available to engineers today. They lucidly describe the design of experiments and the role of failure management. With case studies and narratives from personal experience, they offer optimal ways to utilize different reliability techniques. They highlight common errors of judgment, missteps, and sub-optimal decisions that are often made within organizations on the path to total reliability. With"How Reliable is Your Product? (2nd Edition)," Mike Silverman and Adam Bahret have delivered what few have done before: a comprehensive yet succinct overview of the field of reliability engineering and testing. Engineers and engineering managers will find much in this book of immediate practical value.

Book Information

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Customer Reviews

This is an overview of various quality systems. This book does not show you how to implement any of the systems talked about, but rather gives you the executive summary of each system. As such it is useful to have all of the various quality systems summarized in a single place, but don’t expect to learn the ins and outs of any system here.

This book contains a lot of practical and useful information not contained in any other reliability text I’ve read. Go to the other books if you want to dive into the math. Use this book if you want to setup an effective reliability program.

This is a book for the experienced and the novice, especially the later. In my HALT/HASS training seminars I find that little effort is made in planning. Here Silverman describes planning, and details the necessary steps. One cannot be successful with any complex effort without solid planning. Thus, for the uninitiated who really doesn’t know all that is need to implement a reliability program, Silverman spells out what is need to be successful. Get this book and eliminate unnecessary stumbles.

This book gave great practical advice on how to make a reliable product. I definitely recommend adding this book to your collection regardless of whether you are a novice or seasoned practitioner in the field of reliability.

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