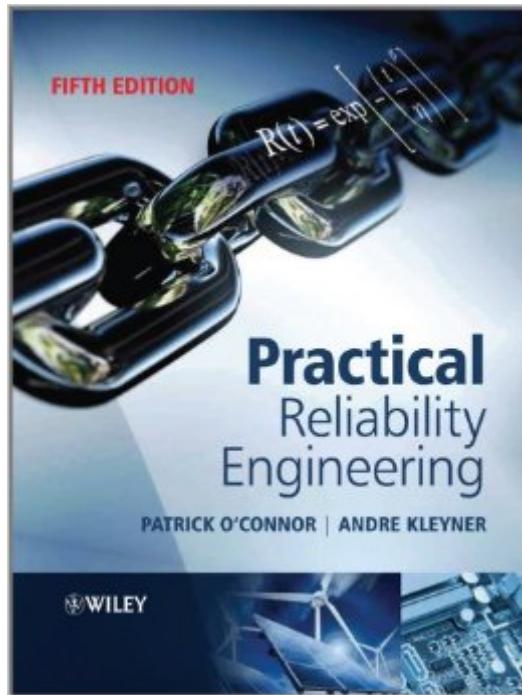


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# Practical Reliability Engineering



## **Synopsis**

With emphasis on practical aspects of engineering, this bestseller has gained worldwide recognition through progressive editions as the essential reliability textbook. This fifth edition retains the unique balanced mixture of reliability theory and applications, thoroughly updated with the latest industry best practices. Practical Reliability Engineering fulfils the requirements of the Certified Reliability Engineer curriculum of the American Society for Quality (ASQ). Each chapter is supported by practice questions, and a solutions manual is available to course tutors via the companion website. Enhanced coverage of mathematics of reliability, physics of failure, graphical and software methods of failure data analysis, reliability prediction and modelling, design for reliability and safety as well as management and economics of reliability programmes ensures continued relevance to all quality assurance and reliability courses. Notable additions include: New chapters on applications of Monte Carlo simulation methods and reliability demonstration methods. Software applications of statistical methods, including probability plotting and a wider use of common software tools. More detailed descriptions of reliability prediction methods. Comprehensive treatment of accelerated test data analysis and warranty data analysis. Revised and expanded end-of-chapter tutorial sections to advance students' practical knowledge. The fifth edition will appeal to a wide range of readers from college students to seasoned engineering professionals involved in the design, development, manufacture and maintenance of reliable engineering products and systems.

[www.wiley.com/go/oconnor\\_reliability5](http://www.wiley.com/go/oconnor_reliability5)

## **Book Information**

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## **Customer Reviews**

The 5th edition contains significant updates and refreshes of many elements of the text. While Practical Reliability Engineering was already a must have reference for anyone working in the reliability profession, the update is required reading. I've long used this text as a goto reference for the myriad of tools, considerations, and references permitting me to solve problems. Now, it's a bit less slanted toward the old military handbooks, and a bit easier to read. I highly recommend this one, even if you have an earlier edition.

This book was exactly geared to my needs as a young engineer embarking on a career in reliability. The content was concise, clear while providing extensive breadth into the complex and most often misunderstood engineering discipline. This is a must read for all engineers! My only gripe is that I have struggled to obtain the solutions manual which accompanies this book (the web link reference quoted in the book failed to deliver ☺)

This book was as syllabus requirement and we actually used this book a lot during the semester. The content is perfect for those who are involved with reliability engineering and Six Sigma practices. It gives the reader simple explanations of reliability and a great overview of the various forms of engineering. I had no clue what a Weibull distribution was until I began my studies with this book. This book describes the basics which helped me walk out of my class with an A- for a subject that I was unfamiliar with until I started studying the subject. If you do not get any other use out of this book as I did in class for my course, please use it as a reference.

This book is an excellent desk reference for any engineer involved in reliability or testing of products. The math is intense, but I read it through at a high level and intend to go back and work some of the questions. As a new engineer, if this was not part of your college coursework, get this book. It will help you determine what test quantities and test durations are needed to prove reliability and confidence.

The book covers many areas of reliability in a rushed way. The book does not teach any subject thoroughly but mentions it enough where you might get an idea of what the subject is about. The section on markov-models and Monte-carlo simulations was good.

I have the Third Edition of O'Connor's Practical Reliability Engineering and just upgraded to the Fifth Edition. Very good resource for the Reliability Engineering field and on ASQ's read list for the CRE exam. Highly recommend. AndyF CMRP

what i need, for a master degree in quality engineering, a little hard if you do not know about statistical and mathematical issues, a issue that in my personal opinion i like its the example section, and the true value of real life data to those.I recommend it

The title of this book accurately reflects what the book delivers. The book introduces the basic concepts of reliability engineering and demonstrates its application to a range of mechanical and electronic system examples. The 5th edition of Practical Reliability Engineering hits the mark by adding extensive software-based solutions to many of the already abundant example problems. The software-based solutions take the "practicality" of this already practical book to the next level. The new edition also includes new chapters on Monte Carlo analysis and reliability demonstration. Practical Reliability Engineering is a highly useable book that represents a worthwhile addition to both a student's and practitioner's reliability engineering resources. The book is solid and worth having even if you own an earlier edition.

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