



Reliability Analysis for Engineers: An Introduction (Oxford Science Publications)

By Roger D. Leitch

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In ordinary life "reliability" is an ephemeral but desirable property of a machine or service that is generally judged in a very subjective manner. But for an engineer, reliability has large financial implications in terms of maintenance policies, running costs, and spares stockholding. In safety critical situations (transport or military equipment), the implications are wider; therefore, it is very important to be able to quantify reliability. This book is an introduction to reliability analysis. Since it is aimed at engineers, it begins by assuming no prior statistical knowledge. It teaches by example taken from engineering problems. Exercises are built around real machines and events, and the solutions given illuminate the subject. It is the first book of its kind aimed at those for whom reliability analysis has far-reaching consequences.

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Editorial Review

Review

"Die sehr leichte Lektüre verhilft dementsprechend schnell einen Einstieg in einige Grundfragestellungen der Zuverlässigkeitstheorie", Professor Dr. Rainer Schlittgen, Institut für Statistik und Ökonometrie University of Hamburg" writing in Allgemeines Statistisches Archiv 81 Band 1/1997 Jan/März
or "The very easy reading helps accordingly fast an entrance in the main problems of the reliability theory"

'... it deserves to become a classic on the subject, not least because it combines accessibility with relevance, and range with rigour...a really helpful and useful book that is well provided with worked examples as well as graded exercises which enable the reader to consolidate an understanding of the text and verify his or her ability to apply the methods correctly.'
IMechE Vol 210, 1996

'This book contains a nice collection of practical problems, their solutions, and the theory behind them The book contains a large number of exercises with detailed solutions given in an appendix. These may be found to be very useful for any engineer who studies the ideas of reliability analysis from this book'
Zbl. Math. 867

About the Author

Roger D. Leitch is a Consultant in Reliability Engineering, formerly Senior Lecturer, Royal Military College of Science, Shrivenham.

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