

Reliability Engineering Handbook (2 Volumes)

By Dimitri Kececioglu



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This volume, one of two devoted to the subject, covers the range of reliability engineering, from product and system design through manufacturing, implementation and maintenance. Illustrated with practical examples, the books show how to specify components, equipment and system reliability - and how to implement these requirements. Comprehensive and easy to understand, these books demonstrate how to analyze time-to-failure data from components, systems and equipment to obtain their distribution, reliability, failure rate and mean lifespan; provide theoretical and practical tools for designing, testing and implementing the probability and capacity of parts, components, equipment, products and systems performance; and include applications to purchasing, engineering, research, development, manufacturing and quality control.



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Editorial Review

From the Publisher

The comprehensive treatment of the field of reliability engineering including product insurance, quality control and Taguichi methods for advanced students and Professional Engineers.

From the Back Cover

This comprehensive two volume series provides a wealth of information, procedures, tests, and illustrations helping engineers analyze time-to-failure data to ensure greater reliability in the products they design. Volume I delivers must-have information on a variety of distributions including Chi-Square, Exponential, Normal, Lognormal, Weibull, Gamma, and others. Coverage goes on to include vital testing methods and procedures such as tests of comparison for the Weibull Distribution, a step-by-step method for goodness-of-fit analysis, sudden death testing, and more. An ideal reference for reliability, product assurance, and test engineers.

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