Reliability: Modeling, Prediction, and Optimization

By Wallace R. Blischke, D. N. Prabhakar Murthy

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Bringing together business and engineering to reliability analysis With manufactured products exploding in numbers and complexity, reliability studies play an increasingly critical role throughout a product's entire life cycle-from design to post-sale support. Reliability: Modeling, Prediction, and Optimization presents a remarkably broad framework for the analysis of the technical and commercial aspects of product reliability, integrating concepts and methodologies from such diverse areas as engineering, materials science, statistics, probability, operations research, and management. Written in plain language by two highly respected experts in the field, this practical work provides engineers, operations managers, and applied statisticians with both qualitative and quantitative tools for solving a variety of complex, real-world reliability problems. A wealth of examples and case studies accompanies:
* Comprehensive coverage of assessment, prediction, and improvement at each stage of a product's life cycle
* Clear explanations of modeling and analysis for hardware ranging from a single part to whole systems
* Thorough coverage of test design and statistical analysis of reliability data
* A special chapter on software reliability
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