



Reliability Engineering (Wiley Series in Systems Engineering and Management)

Elsayed A. Elsayed

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A newly revised and updated edition that details both the theoretical foundations and practical applications of reliability engineering

Reliability is one of the most important quality characteristics of components, products, and large and complex systems—but it takes a significant amount of time and resources to bring reliability to fruition. Thoroughly classroom- and industry-tested, this book helps ensure that engineers see reliability success with every product they design, test, and manufacture.

Divided into three parts, *Reliability Engineering, Second Edition* handily describes the theories and their practical uses while presenting readers with real-world examples and problems to solve. Part I focuses on system reliability estimation for time independent and failure dependent models, helping engineers create a reliable design. Part II aids the reader in assembling necessary components and configuring them to achieve desired reliability objectives, conducting reliability tests on components, and using field data from similar components. Part III follows what happens once a product is produced and sold, how the manufacturer must ensure its reliability objectives by providing preventive and scheduled maintenance and warranty policies.

This *Second Edition* includes in-depth and enhanced chapter coverage of:

- Reliability and Hazard Functions
- System Reliability Evaluation
- Time- and Failure-Dependent Reliability
- Estimation Methods of the Parameters of Failure-Time Distributions
- Parametric Reliability Models
- Models for Accelerated Life Testing
- Renewal Processes and Expected Number of Failures
- Preventive Maintenance and Inspection
- Warranty Models
- Case Studies

A comprehensive reference for practitioners and professionals in quality and reliability engineering, *Reliability Engineering* can also be used for senior undergraduate or graduate courses in industrial and systems, mechanical, and electrical engineering programs.

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