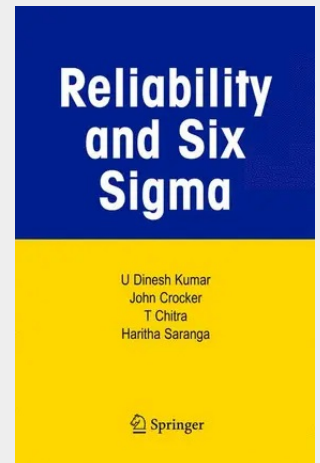


Reliability and Six SIGMA

Reliability and Six Sigma is a carefully developed integration of mathematical models that relate Six Sigma and reliability measures. Case studies further integrate the material throughout the book to illustrate the application of the models. In addition, the book introduces and discusses the following aspects of reliability and Six Sigma:

- The concept of reliability and Six Sigma and their role in system effectiveness
- Basic probability and statistical techniques essential for analyzing reliability and Six Sigma problems
- The measures of Six Sigma and reliability: how to predict them, interpret them, and how these measures are related
- Tools and techniques needed for evaluation of system reliability and the relationship between system reliability and Sigma level
- The design-for-reliability and the tools that are essential to implement Reliability and Six Sigma projects
- Issues related to and the management of in-service reliability
- Techniques to estimate the methodologies from in-service and test data

Reliability and Six Sigma offers a carefully developed integration of mathematical models that relate the Six Sigma quality management system and statistical reliability measures. The text provides a thorough explication of the core concepts of the disciplined Six Sigma program for quality management. Also introduced are the basic concepts of reliability and Six Sigma and their role in system effectiveness; essential probability and statistical techniques; tools and techniques for evaluation of system reliability; essential design-for-reliability tools. Case studies further integrate the material throughout the book to illustrate the application of the models.



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