



Reliability and Risk Models: Setting Reliability Requirements (Quality and Reliability Engineering Series)

Michael Todinov

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A comprehensively updated and reorganized new edition. The updates include comparative methods for improving reliability; methods for optimal allocation of limited resources to achieve a maximum risk reduction; methods for improving reliability at no extra cost and building reliability networks for engineering systems.

Includes:

- A unique set of 46 generic principles for reducing technical risk
- Monte Carlo simulation algorithms for improving reliability and reducing risk
- Methods for setting reliability requirements based on the cost of failure
- New reliability measures based on a minimal separation of random events on a time interval
- Overstress reliability integral for determining the time to failure caused by overstress failure modes
- A powerful equation for determining the probability of failure controlled by defects in loaded components with complex shape
- Comparative methods for improving reliability which do not require reliability data
- Optimal allocation of limited resources to achieve a maximum risk reduction
- Improving system reliability based solely on a permutation of interchangeable components

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