



Reliability Engineering: Probabilistic Models and Maintenance Methods (Mechanical Engineering)

Joel A. Nachlas

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Without proper reliability and maintenance planning, even the most efficient and seemingly cost-effective designs can incur enormous expenses due to repeated or catastrophic failure and subsequent search for the cause. Today's engineering students face increasing pressure from employers, customers, and regulators to produce cost-efficient designs that are less prone to failure and that are safe and easy to use. An understanding of reliability principles and maintenance planning can help accomplish these conflicting goals.

Presenting an integrated approach to reliability evaluation and maintenance planning, **Reliability Engineering: Probabilistic Models and Maintenance Methods** provides comprehensive coverage of the fundamental concepts of reliability theory, basic models, and various methods of analysis. It contains numerous examples and homework problems in each chapter. The first six chapters sequentially outline each basic concept of reliability theory, followed by two chapters on commonly used statistical methods for evaluating component reliability. The book concludes with five chapters on repairable systems and maintenance planning, a chapter devoted to special topics such as warranties, and appendices on numerical computation.

With an accessible blend of mathematical rigor and readability, **Reliability Engineering** is the ideal introductory textbook for graduate students in reliability theory and engineering, repairable systems analysis, operations research methods, and applied random processes.

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