

Engineering Reliability Fundamentals And Applications

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Engineering Reliability: Fundamentals and Applications---

Emphasizing the fundamentals and applications of classical concepts in reliability engineering, this book provides comprehensive coverage of the basics of probability and random variables, the significance of reliability evaluation, combinatorial aspects of system reliability, including the consideration of three-state devices, Markov models and the study of repairable components, a collection of approximate but useful methods for system reliability evaluation, dozens of applications for the ...

Engineering reliability--fundamentals and applications in---

This book presents fundamentals of reliability engineering with its applications in evaluating reliability of multistage interconnection networks. In the first part of the book, it introduces the concept of reliability engineering, elements of probability theory, probability distributions, availability and data analysis.

Fundamentals of Reliability Engineering--Applications in---

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Fundamentals of Reliability Engineering and Applications

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Engineering Reliability: Fundamentals and Applications---

Emphasizing the fundamentals and applications of classical concepts in reliability engineering, this book provides comprehensive coverage on the basics of probability and random variables; the significance of reliability functions; probability distribution functions and their application in reliability evaluation; combinatorial aspects of system reliability, including the consideration of three-state devices; Markov models and the study of repairable components; a collection of approximate ...

Engineering Reliability: Fundamentals and Applications---

An introduction to the fundamentals and applications of classical concepts in reliability engineering. The text reviews the basics of probability and random variables, and contains chapters on reliability and economics, approximate methods and accelerated testing.

A general introduction to the fundamentals and applications of classical concepts in reliability engineering that cuts cross all branches of engineering. Reviews the basics of probability and random variables.

As engineering systems become more and more complex, industry has recognized the importance of system and product reliability and places ever increasing emphasis on it during the design phase. Despite its efforts, however, industry continues to lose billions of dollars each year because of unexpected system failures. Therefore, it becomes increasingly important for designers and engineers to have a solid grounding in reliability engineering and keep abreast of new developments and research results.

This book presents fundamentals of reliability engineering with its applications in evaluating reliability of multistage interconnection networks. In the first part of the book, it introduces the concept of reliability engineering, elements of probability theory, probability distributions, availability and data analysis. The second part of the book provides an overview of parallel/distributed computing, network design considerations, and more. The book covers a comprehensive reliability engineering methods and its practical aspects in its interconnection network systems. Students, engineers, researchers, managers will find this book as a valuable reference source.

Engineering Reliability: Fundamentals and Applications---

Emphasizing the fundamentals and applications of classical concepts in reliability engineering, this book provides comprehensive coverage on the basics of probability and random variables; the significance of reliability functions; probability distribution functions and their application in reliability evaluation; combinatorial aspects of system reliability, including the consideration of three-state devices; Markov models and the study of repairable components; a collection of approximate ...

Engineering Reliability: Fundamentals and Applications---

Optimal Reliability Design provides a detailed introduction to systems reliability and reliability optimization. State-of-the-art techniques for maximizing system reliability are described, focusing on component reliability enhancement and redundancy arrangement. The authors present several case studies and show how optimization techniques are applied in practice. They also pay particular attention to finding methods that give the optimal trade-off between reliability and cost. The book is suitable for use on graduate-level courses in reliability engineering and operations research. It will also be a valuable reference for practising engineers.

As engineering systems become more and more complex, industry has recognized the importance of system and product reliability and places ever increasing emphasis on it during the design phase. Despite its efforts, however, industry continues to lose billions of dollars each year because of unexpected system failures. Therefore, it becomes increasingly important for designers and engineers to have a solid grounding in reliability engineering and keep abreast of new developments and research results.

Quality control is a constant priority in electrical, mechanical, aeronautical, and nuclear engineering – as well as in the vast domain of electronics, from home appliances to computers and telecommunications. Quality Control Applications provides guidance and valuable insight into quality control policies; their methods, their implementation, constant observation and associated technical audits. What has previously been a mostly mathematical topic is translated here for engineers concerned with the practical implementation of quality control. Once the fundamentals of quality control are established, Quality Control Applications goes on to develop this knowledge and explain how to apply it in the most effective way. Techniques are described and supported using relevant, real-life, case studies to provide detail and clarity for those without a mathematical background. Among the many practical examples, two case studies dramatize the importance of quality assurance: A shot-by-shot analysis of the errors made in the Fukushima Daiichi nuclear disaster; and the engineering failure with new technology due to the absence of quality control in an alternative energy project. This clear and comprehensive approach makes Quality Control Applications an essential reference for those studying engineering as well industry professionals involved in quality control across product and system design.

Software reliability is one of the most important characteristics of software product quality. Its measurement and management technologies during the software product life cycle are essential to produce and maintain quality/reliable software systems. Part 1 of this book introduces several aspects of software reliability modeling and its applications. Hazard rate and nonhomogeneous Poisson process (NHPP) models are investigated particularly for quantitative software reliability assessment. Further, imperfect debugging and software availability models are discussed with reference to incorporating practical factors of dynamic software behavior. Three software management problems are presented as application technologies of software reliability models: the optimal software release problem, the statistical testing-progress control, and the optimal testing-effort allocation problem. Part 2 of the book describes several recent developments in software reliability modeling and their applications as quantitative techniques for software quality/reliability measurement and assessment. The discussion includes a quality engineering analysis of human factors affecting software reliability during the design review phase, which is the upper stream of software development, as well as software reliability growth models based on stochastic differential equations and discrete calculus during the testing phase, which is the lower stream. The final part of the book provides an illustration of quality-oriented software management analysis by applying the multivariate analysis method and the existing software reliability growth models to actual process monitoring data.

Reliability Engineering – A Life Cycle Approach is based on the author ’ s knowledge of systems and their problems from multiple industries, from sophisticated, first class installations to less sophisticated plants often operating under severe budget constraints and yet having to deliver first class availability. Taking a practical approach and drawing from the author ’ s global academic and work experience, the text covers the basics of reliability engineering, from design through to operation and maintenance. Examples and problems are used to embed the theory, and case studies are integrated to convey real engineering experience and to increase the student ’ s analytical skills. Additional subjects such as failure analysis, the management of the reliability function, systems engineering skills, project management requirements and basic financial management requirements are covered. Linear programming and financial analysis are presented in the context of justifying maintenance budgets and retrofits. The book presents a stand-alone picture of the reliability engineer ’ s work over all stages of the system life-cycle, and enables readers to: Understand the life-cycle approach to engineering reliability Explore failure analysis techniques and their importance in reliability engineering Learn the skills of linear programming, financial analysis, and budgeting for maintenance Analyze the application of key concepts through realistic Case Studies This text will equip engineering students, engineers and technical managers with the knowledge and skills they need, and the numerous examples and case studies include provide insight to their real-world application. An Instructor ’ s Manual and Figure Slides are available for instructors.

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