



# Product Reliability, Maintainability, and Supportability Handbook

*Michael Pecht, The Arinc Inc*

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# Product Reliability, Maintainability, and Supportability Handbook

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## **Product Reliability, Maintainability, and Supportability Handbook** Michael Pecht, The Arinc Inc

This unique publication addresses the role of reliability, maintainability, and supportability in the life-cycle of a product, in the context of product effectiveness and worth. It emphasizes all aspects of producing an effective electrical or mechanical system. This is the only handbook available on this subject and the only book that is this comprehensive and informative.

The Product Reliability, Maintainability, and Supportability Handbook examines the logistics, cost, and the physics of failure-topics never before found in a single volume on reliability. It describes the factors that affect product effectiveness and worth: performance, reliability, design effectiveness and margin for error, availability, affordability, use effectiveness, and logistic effectiveness. The handbook contains 13 in-depth chapters, opening with an introduction on product effectiveness and worth and concluding with reliability and maintainability data that can be combined with performance data to assess overall effectiveness of the product. The pages are filled with valuable information that can be easily and quickly put to practical use.

Basic principles of the mathematical theory of probability and necessary background are provided. Concepts and basic theory of reliability in terms of probability and statistical inference are also given. Techniques for deriving probabilistic models from observational data as well as reliability models and associated validation techniques are detailed. Software and software reliability, quality, and safety are all covered, including the development life-cycle process and mechanisms by which software errors are introduced.

The book presents design guidelines and techniques and the requirements for materials, manufacturing, and assembly. Learn how to analyze the reliability of redundant and fault-tolerant products. Use the methods for modeling and analyzing failures of repairable products that normally exhibit wearout characteristics. The Product Reliability, Maintainability, and Supportability Handbook also provides reliability improvement techniques to improve the competitiveness of existing products.

The book includes helpful summaries and numerous problem sections to reinforce and test learned information. This reference source is the guide that professionals and technical managers should turn to when they need a comprehensive and detailed overview of everything that goes into producing systems and products that meet customer needs in an effective and timely manner.



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