



Maintenance, Replacement, and Reliability: Theory and Applications, Second Edition (Mechanical Engineering)

By Andrew K.S. Jardine, Albert H.C. Tsang

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A completely revised and updated edition of a bestseller, **Maintenance, Replacement, and Reliability: Theory and Applications, Second Edition** supplies the tools needed for making data-driven physical asset management decisions. The well-received first edition quickly became a mainstay for professors, students, and professionals, with its clear presentation of concepts immediately applicable to real-life situations. However, research is ongoing and relentless?in only a few short years, much has changed.

See What's New in the Second Edition:

New Topics

Updated the appendix List of Applications of Maintenance Decision Optimization Models Firmly based on the results of real-world research in physical asset management, the book focuses on data-driven tools for asset management decisions. It provides a solid theoretical foundation for various tools (mathematical models) that, in turn, can be used to optimize a variety of key maintenance/replacement/reliability decisions. It presents cases that illustrate the application of these tools in a variety of settings, such as food processing, petrochemical, steel and pharmaceutical industries, as well as the military, mining, and transportation (land and air) sectors. Based on the authors' experience, the second edition maintains the format that made the previous edition so popular. It covers theories and methodologies grounded in the real world. Simply stated, no other book available addresses the range of methodologies associated with, or focusing on, tools to ensure that asset management decisions are optimized over the product's life cycle. And then presents them in an easily digestible and immediately applicable way.

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Editorial Review

"... an excellent book that provides an extensive coverage of managerial issues and quantitative methods that will help in the decision making process. ... The authors have extensive experience in maintenance engineering and management. This book is a good summary of the state of the art in this important field. I believe that it is a very useful book at undergraduate or postgraduate level, for students in industrial and mechanical/manufacturing engineering. It should also serve as a good reference book for others interested in or working with related problems. I will certainly recommend it to my students."

?Professor Min Xie, City University of Hong Kong

"Andrew and Albert's book focuses on "when" to do activities such as component and capital replacements, and inspections and what resources are required. Understanding how to do this assists practitioners in improving the timing and resourcing of their decisions with consequent cost and risk benefits. It is invaluable in the way it provides real examples of these decisions in an accessible way for the maintenance and reliability practitioner."

?Professor Melinda Hodkiewicz, University of Western Australia

"The authors approach the subject in a logical and systematic way which reflects their many years of teaching and research background directly related to the topics covered in the book. ... They provide easy to understand engineering explanations to decision models and mathematical expressions facilitating easy applications of these models in practical engineering works."

?Uday Kumar, PhD, Luleå University of Technology, Sweden

"Having a good quantitative methods book is simple; having a good engineering economics is also easy; having a good reliability book is not so difficult; having a book integrating various quantitative concepts to resolve real asset management problems is unique: Dr. Jardine's Maintenance, Replacement, and Reliability 2nd ed."

?Prof. Michel Rioux, P.Eng., Ph.D., Montreal, Quebec, Canada

"... addresses the key reliability and maintenance decision making issues in effective physical asset management. With a comprehensive and integrated approach this text makes my role as the educator in asset and reliability management a lot easier."

?Professor Chanan S Syan, The University of the West Indies, St. Augustine, Trinidad, West Indies

From reader reviews:

Stephen Rael: Your reading sixth sense will not betray you, why because this Maintenance, Replacement, and Reliability: Theory and Applications, Second Edition (Mechanical Engineering) reserve written by well-known writer we are excited for well how to make book which might be understand by anyone who also read the book. Written with good manner for you, dripping every ideas and publishing skill only for eliminate your own hunger then you still skepticism Maintenance, Replacement, and Reliability: Theory and Applications, Second Edition (Mechanical Engineering) as good book not merely by the cover but also through the content. This is one reserve that can break don't judge book by its include, so do you still needing yet another sixth sense to pick this specific!? Oh come on your studying sixth sense already alerted you so why you have to listening to an additional sixth sense.

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