

**SECOND EDITION**

# ASSET MANAGEMENT EXCELLENCE

**Optimizing Equipment  
Life-Cycle Decisions**

Edited by

John D. Campbell

Andrew K. S. Jardine

Joel McGlynn



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# Maintenance Excellence Optimizing Equipment Life Cycle Decisions

**Robert Little**



## **Maintenance Excellence Optimizing Equipment Life Cycle Decisions:**

Maintenance Excellence John D. Campbell, Andrew K.S. Jardine, 2001-02-13 Considering maintenance from a proactive rather than reactive perspective Maintenance Excellence details the strategies tools and solutions for maximizing the productivity of physical assets focusing on profitability potential The editors address contemporary concerns key terms data requirements critical methodologies and essential mathematical needs They present maintenance in a business context review planning measurement feedback and techniques related to cost efficiency and results and summarize applications of tools and software from statistics and neural networks to cost optimized models      **Asset Management Excellence** John D. Campbell, Andrew K.S. Jardine, Joel McGlynn, 2016-04-19 During the eight years since the publication of Maintenance Excellence Optimizing Equipment Life Cycle Decisions the business environment has changed drastically Globalization consolidation and changes in technology challenge asset management and maintenance professionals to be more efficient Globalization and consolidation have been particula      *Maintenance Excellence* John D. Campbell, Andrew K.S. Jardine, 2001-02-13 Considering maintenance from a proactive rather than reactive perspective Maintenance Excellence details the strategies tools and solutions for maximizing the productivity of physical assets focusing on profitability potential The editors address contemporary concerns key terms data requirements critical methodologies and essential mathematical needs They present maintenance in a business context review planning measurement feedback and techniques related to cost efficiency and results and summarize applications of tools and software from statistics and neural networks to cost optimized models      **Asset Management Excellence** John D. Campbell, Andrew K.S. Jardine, Joel McGlynn, Don M. Barry, 2024-02-09 This is the third edition of Asset Management Excellence Optimizing Equipment Life Cycle Decisions This edition acknowledges and introduces the many changes to the Asset Management business while continuing to explain the supporting fundamentals Since the second edition there have been many influences of change in asset management society s expectations and supporting technologies In this edition the contributors have revisited the content and have updated and added insights and information based on the emerging influences in thinking and the continued evolution of applied technologies since the prior editions New in the Third Edition Updates across each of the second edition chapters to align with today s insights Updates on technologies now available to support Asset Management including related software packaging the Internet of Things IoT Machine Learning and Artificial Intelligence Insights on how Information Technology can step up to help an asset intensive organization compete drive to operational excellence and automation A chapter on sustainability and the influence Asset Management may have on this higher focus priority A chapter on change enablement as the process and technology changes impact the various stakeholders of asset intensive organizations The fundamentals of Asset Management are essential as Asset intensive organizations look to technologies to help them compete AI is becoming pervasive but must be confirmed and aligned with the fundamentals This edition will provoke thought as each organization

determines its next steps toward its new challenges in Asset Management      Maintenance, Replacement, and Reliability

Andrew K.S. Jardine, Albert H.C. Tsang, 2005-09-29 Based on the results of research in physical asset management Maintenance Replacement and Reliability Theory and Applications introduces students to the tools for making data driven decisions and how to use them The book offers a solid theoretical foundation for these tools demonstrating applications through various case studies Firmly rooted in reality the applications covered relate to areas such as food processing the military mining transportation steel and petrochemical and pharmaceutical industries Ideal for classroom use this text features supplementary software that can be downloaded from the CRC Web site The downloadable educational versions of software packages include OREST SMS EXAKT for CBM optimization PERDEC Workshop Simulator Crew Size Optimizer and WiebullSoft This book can be used as a textbook for a one semester senior undergraduate or postgraduate course on maintenance decision analysis It provides problem sets with answers at the end of each chapter an extensive set of PowerPoint slides covering the various chapters and appendices a solutions manual for the problems in the book and a bank of more than 100 examination questions Instructors who adopt the book can obtain these resources at [www.crcpress.com](http://www.crcpress.com) The authors approach the topic with the ideology that mathematical modeling is not a spectator sport Their examination of the underpinning theories for formulating models and exploration of real world applications make the book both informative and practical It provides professors with the tools they need to easily teach their students how to transform data into information      Asset Management Excellence John D. Campbell, Andrew K.S. Jardine, Joel McGlynn, Don M. Barry, 2024-02-09 This is the third edition of Asset Management Excellence Optimizing Equipment Life Cycle Decisions This edition acknowledges and introduces the many changes to the Asset Management business while continuing to explain the supporting fundamentals Since the second edition there have been many influences of change in asset management society s expectations and supporting technologies In this edition the contributors have revisited the content and have updated and added insights and information based on the emerging influences in thinking and the continued evolution of applied technologies since the prior editions New in the Third Edition Updates across each of the second edition chapters to align with today s insights Updates on technologies now available to support Asset Management including related software packaging the Internet of Things IoT Machine Learning and Artificial Intelligence Insights on how Information Technology can step up to help an asset intensive organization compete drive to operational excellence and automation A chapter on sustainability and the influence Asset Management may have on this higher focus priority A chapter on change enablement as the process and technology changes impact the various stakeholders of asset intensive organizations The fundamentals of Asset Management are essential as Asset intensive organizations look to technologies to help them compete AI is becoming pervasive but must be confirmed and aligned with the fundamentals This edition will provoke thought as each organization determines its next steps toward its new challenges in Asset Management      Maintenance Decision Making Liliane

Pintelon, Frank Van Puyvelde, 2006 Over the last decades maintenance management has evolved from a somewhat neglected function into a full fledged business function in the industry as well as in the service sector This book provides a structured approach to maintenance management It covers maintenance strategy decisions resource management assessment system design etc Decision support models and tools in these areas are discussed from the theoretical point of view and illustrated by numerous examples and case studies Due to its concept the book can be interesting for students as well as practitioners This book is the successor of Maintenance Management 2000 which gave an introduction in the field

### **E-maintenance**

Kenneth Holmberg, Adam Adgar, Aitor Arnaiz, Erkki Jantunen, Julien Mascolo, Samir Mekid, 2010-08-12 E maintenance is the synthesis of two major trends in today's society the growing importance of maintenance as a key technology and the rapid development of information and communication technology E maintenance gives the reader an overview of the possibilities offered by new and advanced information and communication technology to achieve efficient maintenance solutions in industry energy production and transportation thereby supporting sustainable development in society Sixteen chapters cover a range of different technologies such as new micro sensors on line lubrication sensors smart tags for condition monitoring wireless communication and smart personal digital assistants E maintenance also discusses semantic data structuring solutions ontology structured communications implementation of diagnostics and prognostics and maintenance decision support by economic optimisation It includes four industrial cases that are both described and analysed in detail with an outline of a global application solution E maintenance is a useful tool for engineers and technicians who wish to develop e maintenance in industrial sites It is also a source of new and stimulating ideas for researchers looking to make the next step towards sustainable development

### **Cases on Optimizing the Asset Management Process**

González-Prida, Vicente, Márquez, Carlos Alberto Parra, Márquez, Adolfo Crespo, 2021-10-15 It is critical to improve the asset management system implementation as well as economics and industrial decision making to ensure that a business may move smoothly internally Maintenance management should be aligned to the activities of maintenance in accordance with key business strategies which must be designed under the comprehensive approach of an asset management process After transforming the priorities of the business into priorities of maintenance maintenance managers will use their medium term strategies to tackle potential weaknesses in the maintenance of the equipment in accordance with these objectives Cases on Optimizing the Asset Management Process explains and summarizes the processes and the reference frame necessary for the implementation of the Maintenance Management Model MMM This book acts as an overview of the current state of the art in asset management providing innovative tools and practices from the fourth industrial revolution Presenting topics like criticality analysis physical asset maintenance and unified modelling language this text is essential for industrial and manufacturing engineers plant supervisors academicians researchers advanced level students technology developers and managers who make decisions in this field

### **The Maintenance Management Framework**

Adolfo Crespo

Márquez,2007-06-10 The Maintenance Management Framework describes and reviews the concept process and framework of modern maintenance management of complex systems concentrating specifically on modern modelling tools deterministic and empirical for maintenance planning and scheduling It presents a new perspective of maintenance management by focusing on the course of maintenance actions presenting a structure that ensures proper support for current maintenance managers clarifying the functionality that is required from information technology when applied to maintenance and the functions of modern maintenance engineering and creating a set of practical models for maintenance management planning and scheduling The discussion of all of these issues is supported through the use of case studies The Maintenance Management Framework will be beneficial for engineers and professionals involved in maintenance management maintenance engineering operations management quality etc It will also be of interest to graduate students and researchers in this field

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**Applied Combustion** Eugene L. Keating,2007-03-09 The second edition of this practical text offers a broad introduction to the engineering principles of chemical energy conversion Eugene L Keating Ph D P E a recognized authority within academia government and industry examines combustion science and technology using fundamental principles Thermochemical engineering data and design formulations of basic performance relationships appear in dual SI and English engineering dimensions and units helping you save time and avoid conversion errors New in the Second Edition Streamlined organization that progressively develops fundamental concepts Extended section on fuel cells New section on the nitrogen oxygen reaction system Additional coverage of environmental aspects of specific combustion characteristics New chapter on thermal destruction Furnishing examples that demonstrate a proper engineering analysis as well as important concepts relevant to the nature of combustion devices Applied Combustion Second Edition explores the ideal oxidation reaction equation fuel heat release rates chemical equilibrium incomplete combustion chemical kinetics and detonation thermal explosion and basic flame theories The book treats the features of chemical energy resources and presents a thermochemical overview of current and potential solid liquid and gaseous natural and synthetic fuel resources It also describes the fuel engine interface characteristics of important external and internal combustion heat engines in terms of fuel compatibility consumption rates pollution characteristics emission controls and energy conversion efficiencies

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Pump

Characteristics and Applications, Second Edition Michael Volk, 2005-04-07 This hands on reference offers a practical introduction to pumps and provides the tools necessary to select size operate and maintain pumps properly It highlights the interrelatedness of pump engineering from system and piping design to installation and startup This updated second edition expands on many subjects introduced in the first edition and also provides new in depth discussion of pump couplings o rings motors variable frequency drives pump life cycle cost corrosion and pump minimum flow Written by an acclaimed expert in the field Pump Characteristics and Applications Second Edition is an invaluable day to day reference for mechanical civil chemical industrial design plant project and systems engineers engineering supervisors maintenance technicians and plant operators It is also an excellent text for upper level undergraduate and graduate students in departments of mechanical engineering mechanical engineering technology or engineering technology About the Author Michael W Volk P E is President of Volk pump equipment evaluation troubleshooting and field testing expert witness for pump litigation witnessing of pump shop tests pump market research and acquisition and divestiture consultation and brokerage A member of the American Society of Mechanical Engineers ASME and a registered professional engineer Volk received the B S degree 1973 in mechanical engineering from the University of Illinois Urbana and the M S degree 1976 in mechanical engineering and the M S degree 1980 in management science from the University of Southern California Los Angeles

**Handbook of Lead-Free Solder Technology for Microelectronic Assemblies** Karl J. Puttlitz, Kathleen A. Stalter, 2004-02-27 This reference provides a complete discussion of the conversion from standard lead tin to lead free solder microelectronic assemblies for low end and high end applications Written by more than 45 world class researchers and practitioners the book discusses general reliability issues concerning microelectronic assemblies as well as factors specif

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*Mechanical Reliability Improvement* Robert Little, 2002-09-25 Providing probability and statistical concepts developed using pseudorandom numbers this book covers enumeration simulation and randomization based statistical analyses for comparison of the test performance of alternative designs as well as simulation and randomization based tests for examination of the credibility of statistical presumptions the book discusses centroid and moment of inertia analogies for mean and variance and the organization structure of completely randomized randomized complete block and split spot experiment test programs

Purchase of the text provides access to 200 microcomputer programs illustrating a wide range of reliability and statistical analyses     *Structural Analysis of Polymeric Composite Materials* Mark E. Tuttle,2003-11-07 Structural Analysis of Polymeric Composite Materials studies the mechanics of composite materials and structures and combines classical lamination theory with macromechanic failure principles for prediction and optimization of composite structural performance This reference addresses topics such as high strength fibers commercially available comp     *Implementing Concurrent Engineering in Small Companies* Susan Skalak,2002-07-17 Presenting a systematic approach to concurrent engineering CE this reference accommodates the small corporation s quest to incorporate better design management practices The author provides an easy to follow methodology that eliminates the need for costly consultants promotes environmentally friendly solutions and introduces three main design models to aid in new evolutionary and incremental product design She also examines how the adoption of CE practices improves overall performance Topics include engineering specifications for product parameters conceptual and embodiment design vendor selection and approval prototyping and line and equipment installation

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