

SECOND EDITION

ASSET MANAGEMENT EXCELLENCE

**Optimizing Equipment
Life-Cycle Decisions**

Edited by

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CRC Press
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Maintenance Excellence Optimizing Equipment Life Cycle Decisions

Michael Volk



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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 *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 *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.

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.

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

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