

# SECOND EDITION

ASSET MANAGEMENT EXCELLENCE

Optimizing Equipment Life-Cycle Decisions

John D. Campbell Andrew K. S. Jardine Joel McGlynn



# <u>Maintenance Excellence Optimizing Equipment Life</u> <u>Cycle Decisions</u>

**Eugene L. Keating** 

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

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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 team 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

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aim of this book is to investigate and develop frameworks to aid effective maintenance management of municipal buildings in the education sector of developing economies Using the South African education sector as a case study this book provides readers with two major practical insights Firstly it focuses on the theoretical underpinnings of maintenance management research and introduces a maintenance management model through the development of a conceptual framework This framework aids in explaining the factors underpinning the maintenance of municipal buildings but can also be used in the assessment and management of other public buildings Secondly the book highlights and addresses theoretical gaps in existing studies essential for the maintenance management of buildings in developing economies providing a stimulus for future research The book will be of interest to researchers in construction management building technology estate management civil engineering architecture and urban and regional planning It is an essential manual for policymakers in the education sector built environment construction industry facility maintenance facility management and consultants at government ministries departments and agencies MDAs charged with maintenance management of public infrastructures and assets <u>Fundamental Mechanics of Fluids, Third Edition</u> Iain G. Currie, I.G. Currie, 2002-12-12 Retaining the features that made previous editions perennial favorites Fundamental Mechanics of Fluids Third Edition illustrates basic equations and strategies used to analyze fluid dynamics mechanisms and behavior and offers solutions to fluid flow dilemmas encountered in common engineering applications The new edition contains completely reworked line drawings revised problems and extended end of chapter questions for clarification and expansion of key concepts Includes appendices summarizing vectors tensors complex variables and governing equations in common coordinate systems Comprehensive in scope and breadth the Third Edition of Fundamental Mechanics of Fluids discusses Continuity mass momentum and energy One two and three dimensional flows Low Reynolds number solutions Buoyancy driven flows Boundary layer theory Flow Bearing Design in Machinery Avraham Harnoy, 2002-09-25 Covering the measurement Surface waves Shock waves fundamental principles of bearing selection design and tribology this book discusses basic physical principles of bearing selection lubrication design computations advanced bearings materials arrangement housing and seals as well as recent developments in bearings for high speed aircraft engines The author explores unique solutions to challenging design problems and presents rare case studies such as hydrodynamic and rolling element bearings in series and adjustable hydrostatic pads for large bearings He focuses on the design considerations and calculations specific to hydrodynamic journal bearings hydrostatic bearings and rolling element bearings Mine Planning and Equipment Selection 2004 Monika Hardygóra, Gabriela Paszkowska, Marek Sikora, 2004-08-15 Spearheading the promotion of international technology transfer in the fields of mine planning mining systems design equipment selection and operation techniques the International Symposium on Mine Planning and Equipment Selection is recognised by the mining society as a key annual event in highlighting developments within the field Here in this volume proceedings from the thirteenth annual symposium

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