

Second Edition

Developing Performance Indicators for Managing Maintenance



Terry Wireman

Developing Performance Indicators For Managing Maintenance Second Edition

Kern Peng



Developing Performance Indicators For Managing Maintenance Second Edition:

Developing Performance Indicators for Managing Maintenance Terry Wireman, 2005 This unique reference utilizes techniques based on other management measurement systems such as the balanced scorecard It also presents a maturing of measurement technique for maintenance and asset maintenance and development techniques allowing companies to be competitive into the future

Developing Performance Indicators for Managing Maintenance Terry Wireman, 2005-01-03 This is the CD only version of this popular book *Developing Performance Indicators for Managing Maintenance* is designed to provide the key details on how to measure and improve one of the most important functions in an organization today Equipment or Asset Maintenance Management As one of only a handful of comprehensive collections of performance indicators for managing maintenance in print today this book is distinguished by its use of techniques based on a variety of management measurement systems such as the Balanced Scorecard approach While the previous edition primarily concentrated on the basic indicators for managing maintenance and how to link them to a company's financials this new edition goes further by also addressing recent advancements in the management of maintenance This book is an invaluable tool for any company that wants to effectively measure and manage the entire spectrum of maintenance activities to help achieve competitive advantage Such companies view maintenance as a way to reduce costs of producing their product or providing their services and are intent on using this cost advantage to lower prices improve profit margins and improve shareholder value Shows how to maximize your investment in the maintenance function and ultimately your company's assets by helping you focus on specific indicators Connects typical functional maintenance indicators to a company's strategic indicators Explains how to improve low performing indicators Includes a detailed table of contents that helps you quickly find specific indicators and a separate glossary of maintenance terms

Maintenance, Replacement, and Reliability Andrew K.S. Jardine, Albert H.C. Tsang, 2013-05-28 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 The role of maintenance in sustainability issues PAS 55 a framework for optimizing management assets Data management issues including cases where data are unavailable or sparse How candidates for component replacement can be prioritized using the Jack knife diagram New Appendices Maximum Likelihood Estimated MLE Markov chains and knowledge elicitation procedures based on a Bayesian approach to parameter estimation E learning materials now supplement two previous appendices Statistics Primer and Weibull Analysis 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

Handbook of Safety Principles Niklas Möller, Sven Ove Hansson, Jan-Erik Holmberg, Carl Rollenhagen, 2018-01-04 Presents recent breakthroughs in the theory methods and applications of safety and risk analysis for safety engineers risk analysts and policy makers Safety principles are paramount to addressing structured handling of safety concerns in all technological systems This handbook captures and discusses the multitude of safety principles in a practical and applicable manner It is organized by five overarching categories of safety principles Safety Reserves Information and Control Demonstrability Optimization and Organizational Principles and Practices With a focus on the structured treatment of a large number of safety principles relevant to all related fields each chapter defines the principle in question and discusses its application as well as how it relates to other principles and terms This treatment includes the history the underlying theory and the limitations and criticism of the principle Several chapters also problematize and critically discuss the very concept of a safety principle The book treats issues such as What are safety principles and what roles do they have What kinds of safety principles are there When if ever should rules and principles be disobeyed How do safety principles relate to the law what is the status of principles in different domains The book also features Insights from leading international experts on safety and reliability Real world applications and case studies including systems usability verification and validation human reliability and safety barriers Different taxonomies for how safety principles are categorized Breakthroughs in safety and risk science that can significantly change improve and inform important practical decisions A structured treatment of safety principles relevant to numerous disciplines and application areas in industry and other sectors of society Comprehensive and practical coverage of the multitude of safety principles including maintenance optimization substitution safety automation risk communication precautionary approaches non quantitative safety analysis safety culture and many others The Handbook of Safety Principles is an ideal reference and resource for professionals engaged in risk and safety analysis and research This book is also appropriate as a graduate and PhD level textbook for courses in risk and safety analysis reliability safety engineering and risk management offered within mathematics operations research and engineering departments NIKLAS MÖLLER PhD is Associate Professor at the Royal Institute of Technology in Sweden The author of approximately 20 international journal

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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 Equipment Management in the Post-Maintenance Era Kern Peng, 2018-10-08 Recent advancements in information systems and computer technology have led to developments in equipment and robotic technology that have permanently changed the characteristics of manufacturing equipment Equipment Management in the Post Maintenance Era A New Alternative to Total Productive Maintenance TPM introduces a new way of thinking to help high tech organizations manage an increasingly complex equipment base It also facilitates the fundamental understanding of equipment management those in traditional industries will need to prepare for the emerging microchip era in equipment Kern Peng shares insights gained through decades of managing equipment performance Using a systems model to analyze equipment management he introduces alternatives in equipment management that are currently gaining momentum in high tech industries The book highlights the fundamental internal flaw in maintenance organizational setup presents new approaches to replace maintenance functional setup and illustrates a time tested transformation and implementation process to help transition your organization from the maintenance era to the new post maintenance era Breaks down the history of equipment into five phases Provides a clear understanding of equipment management fundamentals Introduces alternatives in equipment management beyond the mainstream principles of maintenance management The book examines maintenance management logistics including planning and budgeting training and people development customer services and management vendor management and inventory management Supplying a comprehensive look at the history of equipment management it analyzes current maintenance practice and details approaches that can significantly improve the effectiveness and efficiency of your equipment management well into the future **SME Mining Engineering Handbook, Third Edition** Peter

Darling, Society for Mining, Metallurgy, and Exploration (U.S.), 2011 This third edition of the SME Mining Engineering Handbook reaffirms its international reputation as the handbook of choice for today's practicing mining engineer. It distills the body of knowledge that characterizes mining engineering as a disciplinary field and has subsequently helped to inspire and inform generations of mining professionals. Virtually all of the information is original content representing the latest information from more than 250 internationally recognized mining industry experts. Within the handbook's 115 thought-provoking chapters are current topics relevant to today's mining professional: Analyzing how the mining and minerals industry will develop over the medium and long term; why such changes are inevitable; what this will mean in terms of challenges and how they could be managed; Explaining the mechanics associated with the multifaceted world of mine and mineral economics; from the decisions associated with how best to finance a single piece of high-value equipment to the long-term cash flow issues associated with mine planning at a mature operation; Describing the recent and ongoing technical initiatives and engineering developments in relation to robotics, automation, acid rock drainage, block caving, optimization, or process dewatering methods; Examining in detail the methods and equipment available to achieve efficient, predictable, and safe rock breaking; whether employing a tunnel boring machine for development work, mineral extraction using a mobile miner, or cast blasting at a surface coal operation; Identifying the salient points that dictate which is the safest, most efficient, and most versatile extraction method to employ, as well as describing in detail how each alternative is engineered; Discussing the impacts that social and environmental issues have on mining from the pre-exploration phase to end-of-mine issues and beyond; and how to manage these two increasingly important factors to the benefit of both the mining companies and other stakeholders.

Urban Drainage, Second Edition David Butler, John Davies, 2004-05-20 Environmental and engineering aspects are both involved in the drainage of rainwater and wastewater from areas of human development. Urban Drainage deals comprehensively not only with the design of new systems but also the analysis and upgrading of existing infrastructure and the environmental issues involved. Each chapter contains a descriptive overview of the complex issues involved, the basic engineering principles and analysis for each topic. Extensive examples are used to support and demonstrate the key issues explained in the text. Urban Drainage is an essential text for undergraduates and postgraduate students, lecturers, and researchers in water engineering, environmental engineering, public health engineering, and engineering hydrology. It is a useful reference for drainage design and operation engineers in the water industry and local authorities and for consulting engineers. It will also be of interest to students, researchers, and practitioners in environmental science, technology, policy, and planning, geography, and health studies.

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 Optimum Decision Making in Asset Management Carnero, María Carmen, González-Prida, Vicente, 2016-08-24 Asset management is becoming increasingly important to an organization s strategy given its effects on cost production and quality No matter the sector important decisions are made based on techniques and theories that are thought to optimize results asset management models and techniques could help maximize effectiveness while reducing risk Optimum Decision Making in Asset Management posits that effective decision making can be augmented by asset management based on mathematical techniques and models Resolving the problems associated with minimizing uncertainty this publication outlines a myriad of methodologies procedures case studies and management tools that can help any organization achieve world class maintenance This book is ideal for managers manufacturing engineers programmers academics and advanced management students

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