Key Performance Indicators Plant Maintenance

Safety and Reliability of Complex Engineered Systems contains the Proceedings of the 25th European Safety and Reliability Conference, ESREL 2015, held 7-10 September 2015 in Zurich, Switzerland. It includes about 570 papers accepted for presentation at the conference. These contributions focus on theories and methods in the area of risk, safety and

Key Performance Indicators (KPIs) have become a regular and useful tool for measuring business performance everywhere. The KPIs not only help in strategic planning but also in managing operative business world over. The KPIs in the book are organized according to the Balanced Scorecard (BSC) approach, which emphasizes the importance of using both financial and non-financial information to remain competitive in the modern world. We proudly place on record the fact that our book is the first of its kind and provides for a complete analysis of KPIs under financial, customer, process and human resource/innovation perspectives. The book is a major contribution towards achieving sustainable growth as a competitive advantage. It also emphasizes the importance of social acceptance and environmental impact of the business activity. The compendium provides over 170 KPIs in a compact form. It delivers simple definitions, easy to calculate formulae, possible interpretations and useful suggestions towards an efficient and effective implementation of KPIs as controlling instruments.

Performance Management for the Oil, Gas, and Process Industries: A Systems Approach is a practical guide on the business cycle and techniques to undertake step, episodic, and breakthrough improvement in performance to optimize operating costs. Like many industries, the oil, gas, and process industries are coming under increasing pressure to cut costs due to ongoing construction of larger, more integrated units, as well as the application of increasingly stringent environmental policies. Focusing on the 'value adder' or 'revenue generator' core system and the company direction statement, this book describes a systems approach which assures significant sustainable improvements in the business and operational performance specific to the oil, gas, and process industries. The book will enable the reader to: utilize best practice principles of good governance for long term performance enhancement; identify the most significant performance indicators for overall business improvement; apply strategies to ensure that targets are met in agreed upon time frames. Describes a systems approach which assures significant sustainable improvements in the business and operational performance specific to the oil, gas, and process industries Helps readers set appropriate and realistic short-term/ long-term targets with a pre-built facility health checker Elucidates the relationship between PSM, OHS, and Asset Integrity with an increased emphasis on behavior-based safety Discusses specific oil and gas industry issues and examples such as refinery and gas plant performance initiatives and hydrocarbon accounting

Since first AC current high-power hydropower plant was put in operation, built by Nikola Tesla and George Westinghouse in 1895 on Niagara Falls, electrification of the world has dramatically changed. The growing power demand and energy consumption in the last decades require fundamental changes in the process, power production, and services. These requirements tend to use both conventional and nonconventional energy generation in order to have power plants economically useful and environmentally friendly to the society. The goal of this textbook is to provide an up-to-date review of this important topic with specific emphasis on the current guidelines for improving overall efficiency, lowering emissions, and using large share of renewable energy.

Hearing Before the Subcommittee on Nuclear Regulation of the Committee on Environment and Public Works, United States Senate, One Hundred Second Congress, First Session, July 25, 1991

Safety and Reliability: Methodology and Applications

Web Analytics Demystified

A Guide to Measuring and Monitoring Project Performance

A Visual Catalog for Design and Deployment

Collaboration for the Enterprise

New technologies are revolutionising the way manufacturing and supply chain management are implemented. These changes are delivering manufacturing firms the competitive advantage of a highly flexible and responsive supply chain and manufacturing system to ensure that they meet the high expectations of their customers, who, in today's economy, demand absolutely the best service, price, delivery time and product quality. To make e-manufacturing and supply chain technologies effective, integration is needed between various, often disparate systems. To understand why this is such an issue, one needs to understand what the different systems or system components do, their objectives, their specific focus areas and how they interact with other systems. It is also required to understand how these systems evolved to their current state, as the concepts used during the early development of systems and technology tend to remain in place throughout the life-cycle of the systems/technology. This book explores various standards, concepts and techniques used over the years to model systems and hierarchies in order to understand where they fit into the organization and supply chain. It looks at the specific system components and the ways in which they can be designed and graphically depicted for easy understanding by both information technology (IT) and non-IT personnel. Without a good implementation philosophy, very few systems add any real benefit to an organization, and for this reason the ways in which systems are implemented and installation projects managed are also explored and recommendations are made as to possible methods that have proven successful in the past. The human factor and how that impacts on system success are also addressed, as is the motivation for system investment and subsequent benefit measurement processes. Finally, the vendor/user supply/demand within the e-manufacturing domain is explored and a method is put forward that enables the reduction of vendor bias during the vendor selection process. The objective of this book is to provide the reader with a good understanding regarding the four critical factors (business/physical processes, systems supporting the processes, company personnel and company/personal performance measures) that influence the success of any e-manufacturing implementation, and the synchronization required between these factors. · Discover how to implement the flexible and responsive supply chain and manufacturing execution systems required for competitive and customer-focused manufacturing · Build a working knowledge of the latest plant automation, manufacturing execution systems (MES) and supply chain management (SCM) design techniques · Gain a fuller understanding of the four critical factors (business and physical processes, systems supporting the processes, company personnel, performance measurement)

that influence the success of any e-manufacturing implementation, and how to evaluate and optimize all four factors
SAP R/3 Plant Maintenance offers a clear introduction to this small but sophisticated component and provides a highly practical guide to implementing PM. Beginning with a examination of the key business processes underlying PM functionality, the book goes on to cover all the crucial aspects of maintenance planning and execution in R/3. Particular attention is given to integrating plant maintenance with a company's natural process flow.
The importance of power system reliability is demonstrated when our electricity supply is disrupted, whether it decreases the comfort of our free time at home or causes the shutdown of our companies and results in huge economic deficits. The objective of Assessment of Power System Reliability is to contribute to the improvement of power system reliability. It consists of six parts divided into twenty chapters. The first part introduces the important background issues that affect power system reliability. The second part presents the reliability methods that are used for analyses of technical systems and processes. The third part discusses power flow analysis methods, because the dynamic aspect of a power system is an important part of related reliability assessments. The fourth part explores various aspects of the reliability assessment of power systems and their parts. The fifth part covers optimization methods. The sixth part looks at the application of reliability and optimization methods. Assessment of Power System Reliability has been written in straightforward language that continues into the mathematical representation of the methods. Power engineers and developers will appreciate the emphasis on practical usage, while researchers and advanced students will benefit from the simple examples that can facilitate their understanding of the theory behind power system reliability and that outline the procedure for application of the presented methods.
More than 30 federal departments and agencies with a wide range of missions and programs manage large inventories of facilities, also called portfolios. These portfolios range in size from a few hundred to more than a hundred thousand individual structures, buildings, and their supporting infrastructure. They are diverse in terms of facility types, mix of types, and geographic dispersal. For federal senior executives, facilities portfolio-related decisions revolve around the allocation of resources (staff, funding, time) for acquisition, renovation, operation, repair, and disposition of facilities. To make informed decisions, senior executives require information that will allow them to answer such questions as: What facilities do we have? What condition are they in? What facilities are needed to support the organization's missions? This study lays out a framework for developing and evaluating trends in facilities portfolio conditions, investments, and costs and identifies a set of key indicators that can be used to track performance over time. Some of the indicators are currently in use in some federal agencies; others will need to be developed.
Business Dashboards
Technologies, Risks and Rewards
A Comprehensive Guide to Strategies, Practices and Benchmarking
Key Performance Indicators (KPI)
A Step-by-Step Guide to Effective Management of Maintenance, Labor, and Inventory
Designing Performance Measurement Systems
A Practical, Step-By-Step Guide for Increasing Efficiency
This book presents a systematic approach to the management of physical assets from concept to disposal, building upon the previous editions and brought up-to-date with the new international standards ISO55002 and ISO/TS50010. It introduces the general principles of physical asset management and covers all stages of the asset management process, including initial business appraisal, identification of physical asset needs, capability gap analysis, financial evaluation, logistic support analysis, life cycle costing, strategic asset management planning, maintenance strategy, outsourcing, cost-benefit analysis, disposal and renewal. Features include: providing a textbook for asset management courses to university level; relating closely to the ISO55000 international asset management standard series; providing a basis for the establishment of physical asset management as a professional discipline; and presenting case studies, analytical techniques and numerical examples with solutions. Written for practitioners and students in asset management, this book provides an essential foundation to the topic. It is suitable for an advanced undergraduate or postgraduate course in asset management and also offers an ideal reference text for engineers and managers specializing in asset management, reliability, maintenance, logistics or systems engineering.
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 a glossary of maintenance terms

This document lists Key Performance Indicators (KPIs) of the Maintenance Function and gives guidelines to define a set of suitable indicators, to appraise and to improve effectiveness, efficiency and sustainability in the maintenance of the existing physical assets either industrial, infrastructures, facilities, civil buildings or transportation systems, etc. in the framework of the external and internal influencing factors.

Within the last fifty years the performance requirements for technical objects and systems were supplemented with: customer expectations (quality), abilities to prevent the loss of the object properties in operation time (reliability and maintainability), protection against the effects of undesirable events (safety and security) and the ability to

A Systems Approach

Multi-Domain Master Data Management

Scaling between Top line & Bottom line

Theory and Practice of Key Performance Indicators

Rules of Thumb for Maintenance and Reliability Engineers

Key Performance Indicators for Federal Facilities Portfolios

Proceedings of the 12th World Congress on Engineering Asset Management and the 13th International Conference on Vibration Engineering and Technology of Machinery

This unique and innovative book explains how to improve your maintenance and reliability performance at the plant level by changing the organizations culture. It is specifically intended for middle managers in the manufacturing and process industries. This book demystifies the concept of organizational culture and links it with the eight elements of change: leadership, work process, structure, group learning, technology, communication, interrelationships, and rewards. If you want to break the cycle of failed improvement programs and instead use cultural change to help make significant and lasting improvements in plant performance, this book will show you how. Explains in-depth the eight elements of change and how they relate to cultural change. Discusses cultural change with a reliability focus.Includes a PowerPoint presentation with audio on the enclosed CD-ROM, together with a web survey model, the Web of Organizational Change.

Given our rapidly changing world, companies are virtually forced to engage in continuous performance monitoring. Though Key Performance Indicators (KPIs) may at times seem to be the real driving force behind social systems, economies and organizations, they can also have far-reaching normative effects, which can modify organizational behavior and influence key decisions even to the point that organizations themselves tend to become what they measure! Selecting the right performance indicators is hardly a simple undertaking. This book describes in detail the main characteristics of performance measurement systems and summarizes practical methods for defining KPIs, combining theoretical and practical aspects. These descriptions are supported by a wealth of practical examples. The book is intended for all academics, professionals and consultants involved in the analysis and management of KPIs.

In this chapter, we will underline the importance of the key performance indicators (KPIs) computation for power plants' management. The main scope of the KPIs is to continuously monitor and improve the business and technological processes. Such indicators show the efficiency of a process or a system in relation with norms, targets or plans. They usually provide investors and stakeholders a better image regarding location, equipment technology, layout and design, solar and wind exposure in case of renewable energy sources and maintenance strategies. We will present the most important KPIs such as energy performance index, compensated performance ratio, power performance index, yield, and performance, and we will compare these KPIs in terms of relevance and propose a set of new KPIs relevant for maintenance activities. We will also present a case study of a business intelligence (BI) dashboard developed for renewable power plant operation in order to analyze the KPIs. The BI solution contains a data level for data management, an analytical model with KPI framework and forecasting methods based on artificial neural networks (ANN) for estimating the generated energy from renewable energy sources and an interactive dashboard for advanced analytics and decision support.

Multi-Domain Master Data Management delivers practical guidance and specific instruction to help guide planners and practitioners through the challenges of a multi-domain master data management (MDM) implementation. Authors Mark Allen and Dalton Cervo bring their expertise to you in the only reference you need to help your organization take master data management to the next level by incorporating it across multiple domains. Written in a business friendly style with sufficient program planning guidance, this book covers a comprehensive set of topics and advanced strategies centered on the key MDM disciplines of Data Governance, Data Stewardship, Data Quality Management, Metadata Management, and Data Integration. Provides a logical order toward planning, implementation, and ongoing management of multi-domain MDM from a program manager and data steward perspective. Provides detailed guidance, examples and illustrations for MDM practitioners to apply these insights to their strategies, plans, and processes. Covers advanced MDM strategy and instruction aimed at improving data quality management, lowering data maintenance costs, and reducing corporate risks by applying consistent enterprise-wide practices for the management and control of master data.

A Marketer's Guide to Understanding how Your Web Site Affects Your Business

Advanced MDM and Data Governance in Practice

Performance Indicators for Water Supply Services

Essential Electronic Tools for Efficiency

Key Performance Indicators For Dummies

Maintenance Planning and Scheduling Handbook

Assessment of Power System Reliability

The book is about applying Lean manufacturing principles to industrial maintenance in order to improve the efficiency and be able to do more with the same (or less) resources. By industrial maintenance we mean the maintenance that takes place in factories and industrial facilities. The book is the result of multiple improvement projects carried out by the authors in various industrial settings and sectors in the past 10 years.The approach works and can be applied in any industry. It yields results without investment. The book is a step-by-step guide that takes the reader through the maintenance process, from equipment failure to finished repair. In each step of the process, the typical inefficiencies are explained and

tools are given to improve the process. The book is meant to be used as a guide in an improvement journey. The improvement approach presented in the book is very close to the shop floor and instructs the reader to engage with all team members in the maintenance department in every step of the process, in order to make the improvements sustainable. If one looks at the main market indexes, between one third and one half of companies on those indexes belong to the industrial sector: automotive, power generation, basic materials, chemicals, consumer goods, et cetera. Those companies spend on average 2 – 5% of plant replacement value per year on maintenance. About one third of this cost is maintenance labor. The maintenance work that gets done every day in factories around the world is typically inefficient, from a Lean perspective: time is wasted, different tasks are not properly coordinated, job durations are overestimated and job plans, when they exist, are thus "inflated" to cover up the inefficiency. All this happens because maintenance tends to be the "forgotten" area of efficiency in industrial companies, as much of the improvements are carried out on the (literally) productive areas of the factories. When companies set out to "improve" maintenance, they typically do it through budget cuts that can risk the reliability of the equipment. The authors believe there is a better way to do more with the same resources through a careful review of the current way of working and the introduction of Lean. With this book , the authors try to bring to maintenance managers and practitioners the tools they need to quickly improve efficiency (in a matter of weeks) without any investment.

The objective of Kai Zhang and his research is to assess the existing process monitoring and fault detection (PM-FD) methods. His aim is to provide suggestions and guidance for choosing appropriate PM-FD methods, because the performance assessment study for PM-FD methods has become an area of interest in both academics and industry. The author first compares basic FD statistics, and then assesses different PM-FD methods to monitor the key performance indicators of static processes, steady-state dynamic processes and general dynamic processes including transient states. He validates the theoretical developments using both benchmark and real industrial processes.

Rules of Thumb for Maintenance and Reliability Engineers will give the engineer the “have to have” information. It will help instill knowledge on a daily basis, to do his or her job and to maintain and assure reliable equipment to help reduce costs. This book will be an easy reference for engineers and managers needing immediate solutions to everyday problems. Most civil, mechanical, and electrical engineers will face issues relating to maintenance and reliability, at some point in their jobs. This will become their “go to” book. Not an oversized handbook or a theoretical treatise, but a handy collection of graphs, charts, calculations, tables, curves, and explanations, basic “rules of thumb” that any engineer working with equipment will need for basic maintenance and reliability of that equipment. • Access to quick information which will help in day to day and long term engineering solutions in reliability and maintenance • Listing of short articles to help assist engineers in resolving problems they face • Written by two of the top experts in the country

By identifying and describing the most powerful financial and non-financial KPIs, this book will make life easier for you by defining them, explaining how and when they should be used and providing a rich library of KPIs that have been proven to significantly improve performance. The book presents case examples to illustrate the selection and use of the KPIs and provides tools such as KPI selection templates and Key Performance Questions to help you apply the most appropriate KPIs effectively in your business.

Safety and Reliability of Complex Engineered Systems

Key Performance Indicators for Sustainable Management

Developing Performance Indicators for Managing Maintenance

Industrial Engineering and Operations Management

The 75 measures every manager needs to know

Maintenance Audits Handbook

International Commercial Nuclear Reactor Safety

These proceedings include a collection of papers on a range of topics presented at the 12th World Congress on Engineering Asset Management (WCEAM) in Brisbane, 2 – 4 August 2017. Effective strategies are required for managing complex engineering assets such as built environments, infrastructure, plants, equipment, hardware systems and components. Following the release of the ISO 5500x set of standards in 2014, the 12th WCEAM addressed important issues covering all aspects of engineering asset management across various sectors including health. The topics discussed by the congress delegates are grouped into a number of tracks, including strategies for investment and divestment of assets, operations and maintenance of assets, assessment of assets’ health conditions, risk and vulnerability, technologies, and systems for management of assets, standards, education, training and certification.

This book introduces readers to essential strategies, practices, and benchmarking for asset maintenance in operations intensive industries. Drawing on a case study from the oil and gas sector, it offers a methodology and practical solutions to help maintenance practitioners select and formulate an asset maintenance strategy, and to establish best maintenance practices at an organizational level using the frameworks developed here. It is intended for industry practitioners, young maintenance professionals, and students of engineering management who aspire to a career in operations intensive industries.

Effective resource management and reliable equipment are essential for optimum plant performance. Computer-Managed Maintenance Systems goes beyond the simple selection and implementation of a CMMS. It also defines the changes in infrastructure, management philosophy and employee skills that must be implemented to gain maximum benefits from the CMMS. The book is designed to address the information needs of all levels of plant management. In this new edition, the authors have added a chapter specifically on the latest technology, Application Solution Providers (ASP) that has revolutionized the way CMMS are used and the benefits they can offer to a business. This solution provides integrated software, hardware and networking technology along with Information Technology (IT) consulting services into an outsourced package. A new appendix on Key Performance Indicators has also been added. Comprehensive, practical guide that covers selection, justification, and implementation of an effective CMMS in any facility All levels of plant management will find useful information in this step-by-step guideIncludes a new chapter on ASP technologies

eMaintenance: Essential Electronic Tools for Efficiency enables the reader to improve efficiency of operations, maintenance staff, infrastructure managers and system integrators, by accessing a real time computerized system from data to decision. In recent years, the exciting possibilities of eMaintenance have become increasingly recognized as a source of productivity improvement in industry. The seamless linking of systems and equipment to control centres for real time reconfiguring is improving efficiency, reliability, and sustainability in a variety of settings. The book provides an introduction to collecting and processing data from machinery, explains the methods of overcoming the challenges of data collection and processing, and presents tools for data driven condition monitoring and decision making. This is a groundbreaking handbook for those interested in the possibilities of running a plant as a smart asset. Provides an introduction to collecting and processing data from machinery Explains how to use sensor-based tools to increase efficiency of diagnosis, prognosis, and decision-making in maintenance Describes methods for overcoming the challenges of data collection and processing

Performance Assessment for Process Monitoring and Fault Detection Methods

Making it Work for Your Business

2019 : Maintenance : Maintenance Key Performance Indicators
Key Technical Performance Indicators for Power Plants
The State of the Art in Europe from a Life Cycle Perspective
Transit Performance Review Guidelines: Transportation operations, equipment and plant maintenance
A Compendium Based on the "Balanced Scorecard Approach"

The IWA Performance Indicator System for water services is now recognized as a worldwide reference. Since it first appearance in 2000, the system has been widely quoted, adapted and used in a large number of projects both for internal performance assessment and metric benchmarking. Water professionals have benefited from a coherent and flexible system, with precise and detailed definitions that in many cases have become a standard. The system has proven to be adaptable and it has been used in very different contexts for diverse purposes. The Performance Indicators System can be used in any organization regardless of its size, nature (public, private, etc.) or degree of complexity and development. The third edition of Performance Indicators for Water Supply Services represents a further improvement of the original manual. It contains a reviewed and consolidated version of the indicators, resulting from the real needs of water companies worldwide that were expressed during the extensive field testing of the original system. The indicators now properly cover bulk distribution and the needs of developing countries, and all definitions have been thoroughly revised. The confidence grading scheme has been simplified and the procedure to assess the results-uncertainty has been significantly enhanced. In addition to the updated contents of the original edition, a large part of the manual is now devoted to the practical application of the system. Complete with simplified step-by-step implementation procedures and case studies, the manual provides guidelines on how to adapt the IWA concepts and indicators to specific contexts and objectives. This new edition of Performance Indicators for Water Supply Services is an invaluable reference source for all those concerned with managing the performance of the water supply industry, including those in the water utilities as well as regulators, policy-makers and financial agencies.

Developing Performance Indicators for Managing MaintenanceIndustrial Press Inc.

Scaling between top line & Bottom line. Here top line for service provider is about adding on sales and revenues by adding customers and work scope, whereas bottom line remains to be customer prerogative with focus on improving income with enhanced profitability. In simple words maintenance is profit centre for service provider, whereas cost center for any Industry. As Client and service provider both being on contrarian side, differences are obvious. Successful partnership is all about collaboration way beyond obvious. Elaborating the concise business model of outsourcing, precisely relevant to maintenance and touching all its components as evident in the current industrial scenario. There is a lot of books available for technology/ process parts and also covering other areas in isolation, but need of single book integrating all aspects of maintenance outsourcing was long felt. The objective here is to provide a holistic view of maintenance outsourcing in all dimensions from both customer and service provider perspective explaining different aspects of business in a nutshell. Outsourcing Maintenance is for: • Management of any Industry looking for outsourcing maintenance or review the existing contract. • Anyone, i.e., people in the maintenance team including shop floor personnel, contract cell, SCM, HR, safety, etc. • All people in the maintenance business, i.e., facility management, asset management, service/maintenance contract, AMC, etc.

In the past decades asset intensive companies have witnessed a number of regulatory changes and especially industry is facing ever increasing competitiveness. To overcome these challenges different asset management methods have been developed aimed to improve the asset life cycle. Especially the design phase and operation and maintenance phase have seen a rise in tools and methods. Smarter design can lead to improved operation. Likewise, improved operation and maintenance leads to lower replacement costs and may provide the basis for better design. This book brings together and coherently presents the current state of the art in asset management research and practice in Europe from a life cycle perspective. Each chapter focuses on specific parts of this life cycle and explains how the methods and techniques described are connected and how they improve the asset life cycle, thus treating this important subject from a unique perspective.

A Performance Measurement Framework
Performance Management for the Oil, Gas, and Process Industries
Methods and Applications
Asset Intelligence through Integration and Interoperability and Contemporary Vibration Engineering Technologies
With an Introduction to the ISO 55000 Series of Standards
eMaintenance
Recent Improvements of Power Plants Management and Technology

Renewable Bioenergy - Technologies, Risks and Rewards explores the management of risks faced by bioenergy projects and the potential benefits that they bring. This volume includes papers from authoritative authors who have had first hand experience in the bioenergy sector, whether it be from the perspective of the farming sector, the suppliers of technology, the project developers, or the financiers. Their knowledge and experience will help identify the way forward for this emerging renewable energy sector, which has the potential to make a significant contribution to our future energy needs. Topics covered include: Fuel Research and Development The Government Perspective Deploying Technology Developers and Users Covering the Risks The Regulatory Context Connecting and Selling

A complete guide to using KPIs to drive organisationalperformance Is your business on track to achieve success? Key PerformanceIndicators For Dummies covers the essential KPIs that areuseful to all kinds of businesses, and includes more than 100different ways leaders can monitor and drive performance in theirorganisations. This book helps managers understand the crucial KPIs that shouldbe implemented for all different aspects of the organisation,including financial performance, operational and internalprocesses, sales and marketing, customer satisfaction and more.Good KPIs should be unique to every business, as every business hasdifferent objectives. To meet this need, the book provides toolsand templates that leaders can use to develop unique KPIs that bestsuit their particular organisation or industry. Learn to design KPIs that are unique to your business and fitclosely to your strategic objectives Determine which KPI questions you should be asking to achievethe right insights for your business Learn the specific KPIs that are appropriate for differentbusiness circumstances Turn KPIs into deep insights by mastering related reporting andcommunications practices KPIs are a crucial part of every manager's toolkit, and areessential for helping to monitor the execution of businessstrategies and measure results. Key Performance Indicators ForDummies

moves beyond a basic discussion of what KPIs are, andwhy they are needed to provide a complete guide for learning todesign and use specific KPIs to drive organisationalperformance.
This proceedings volume gathers together selected peer-reviewed papers presented at the second edition of the XXVI International Joint Conference on Industrial Engineering and Operations Management (IJCIEOM), which was virtually held on February 22-24, 2021 with the main organization based at the Pontifical Catholic University of Rio de Janeiro, Brazil. Works cover a range of topics in industrial engineering, including operations and process management, global operations, managerial economics, data science and stochastic optimization, logistics and supply chain management, quality management, product development, strategy and organizational engineering, knowledge and information management, sustainability, and disaster management, to name a few. These topics broadly involve fields like operations, manufacturing, industrial and production engineering, and management. This book can be a valuable resource for researchers and practitioners in optimization research, operations research, and correlated fields.
Focusing on designing the right dashboards for use in an organization, this timely, full color book reveals how to successfully deploy dashboards by building the optimal software architecture and dashboard design. In addition, it describes the value of this popular technology to a business and how it can have a significant impact on performance improvement. A unique collection of more than 120 dashboard images are organized by category. One of the chapters provides a step-by-step description of the key performance indicator (KPIs) design process. One of the appendices contains more than 1,000 examples of KPIs to help design the content of dashboards. The book also describes all the steps in a dashboard implementation and offers related advice. Nils Rasmussen (West Hollywood, CA) is cofounder and Principal of Solver, Inc. Claire Y. Chen (Long Beach, CA) is a Senior Business Intelligence Architect at Solver, Inc. Manish Bansal (Irvine, CA) is Vice President of Sales at Solver, Inc.
Practical E-Manufacturing and Supply Chain Management
Asset Maintenance Management in Industry
BS EN 15341
Renewable Bioenergy
SAP R/3 Plant Maintenance
Project Management Metrics, KPIs, and Dashboards
14th International Symposium on Process Systems Engineering

Social Data Analytics is the first practical guide for professionals who want to employ social data for analytics and business intelligence (BI). This book provides a comprehensive overview of the technologies and platforms and shows you how to access and analyze the data. You'll explore the five major types of social data and learn from cases and platform examples to help you make the most of sentiment, behavioral, social graph, location, and rich media data. A four-step approach to the social BI process will help you access, evaluate, collaborate, and share social data with ease. You'll learn everything you need to know to monitor social media and get an overview of the leading vendors in a crowded space of BI applications. By the end of this book, you will be well prepared for your organization’s next social data analytics project. Provides foundational understanding of new and emerging technologies—social data, collaboration, big data, advanced analytics Includes case studies and practical examples of success and failures Will prepare you to lead projects and advance initiatives that will benefit you and your organization

Many readers already regard the Maintenance Planning and Scheduling Handbook as the chief authority for establishing effective maintenance planning and scheduling in the real world. The second edition adds new sections and further develops many existing discussions to make the handbook more comprehensive and helpful. In addition to practical observations and tips on such topics as creating a weekly schedule, staging parts and tools, and daily scheduling, this second edition features a greatly expanded CMMS appendix which includes discussion of critical cautions for implementation, patches, major upgrades, testing, training, and interfaces with other company software. Readers will also find a timely appendix devoted to judging the potential benefits and risks of outsourcing plant work. A new appendix provides guidance on the "people side" of maintenance planning and work execution. The second edition also has added a detailed aids and barriers analysis that improves the appendix on setting up a planning group. The new edition also features "cause maps" illustrating problems with a priority systems and schedule compliance. These improvements and more continue to make the Maintenance Planning and Scheduling Handbook a maintenance classic.

Harold Kerzner’s essential strategies on measuring project management performance With the growth of complex projects, stakeholder involvement, and advancements in visual-based technology, metrics and KPIs (key performance indicators) are key factors in evaluating project performance. Dashboard reporting systems provide accessible project performance data, and sharing this vital data in a concise and consistent manner is a key communication responsibility of all project managers. This third edition of Kerzner's groundbreaking work, Project Management Metrics, KPIs, and Dashboards: A Guide to Measuring and Monitoring Project Performance, helps functional managers gain a thorough grasp of what metrics and KPIs are and how to use them. Plus, this edition includes new sections on processing dashboard information, portfolio management PMO and metrics, and BI tool flexibility. • Offers comprehensive coverage of the different dashboard types, design issues, and applications Provides full-color dashboards from some of the most successful project management companies, including IBM, Microsoft, and others Aligns with PMI’s PMBOK® Guide and stresses value-driven project management PPT decks are available by chapter and a test bank will be available for use in seminar presentations and courses Get ready to bolster your awareness of what good metrics management really entails today—and be armed with the knowledge to measure performance more effectively.

14th International Symposium on Process Systems Engineering, Volume 49 brings together the international community of researchers and engineers interested in computing-based methods in process engineering. The conference highlights the contributions of the PSE community towards the sustainability of modern society and is based on the 2021 event held in Tokyo, Japan, July 1-23, 2021. It contains contributions from academia and industry, establishing the core products of PSE, defining the new and changing scope of our results, and covering future challenges. Plenary and keynote lectures discuss real-world challenges (globalization, energy, environment and health) and contribute to discussions on the widening scope of PSE versus the consolidation of the core topics of PSE. Highlights how the Process Systems Engineering community contributes to the sustainability of modern society Establishes the core products of Process Systems Engineering Defines the future challenges of Process Systems Engineering

Outsourcing Maintenance
ESREL 2015
Physical Asset Management
Computer-Managed Maintenance Systems
Federal Facilities Council Technical Report Number 147
Asset Management

Improving Maintenance and Reliability Through Cultural Change

Maintenance Audits Handbook: A Performance Measurement Framework explores the maintenance function and performance of an organization, and outlines the key aspects required for an effective and efficient maintenance performance measurement (MPM) system. Incorporating different aspects of traditional literature and considering various frameworks on the subject, it examines the auditing process as well as the use and development of maintenance metrics. It identifies different frameworks and models showcasing how MPM systems should be implemented as well as the values that are created when different frameworks are used. The book presents performance indicators within a framework that classifies and sorts according to functional and hierarchical aspects. It introduces techniques that can help determine the right set of performance indicators. It also outlines a process that combines both numerical indicators with the classical result of massive questionnaires successfully incorporating both the quantitative and qualitative aspects of maintenance performance. In addition, the author provides examples of MPM frameworks that are used in organizations with condition-based, vibration-based, and reliability-centered maintenance. A useful handbook for students and maintenance professionals, this book provides readers with an understanding of how to Align the organizational strategy to the strategies of the maintenance function Link the maintenance performance measures to the different hierarchies of the organization and establish effective communication between them Translate the MPIs at operational level to the corporate level (to create value for the whole organization and its customers) Identify the weaknesses and strengths of the implemented maintenance strategy Maintenance Audits Handbook: A Performance Measurement Framework provides readers with a sound foundation for developing and measuring a comprehensive maintenance improvement strategy using qualitative and quantitative data, and serves as an ideal resource for maintenance/mechanical engineers, maintenance/performance/business/production managers and industry professionals involved in maintenance.

Occupational Outlook Handbook

Lean Maintenance

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Social Data Analytics