

Maintenance And Spare Parts Management

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Maintenance for Industrial Systems - Riccardo Manzini 2009-11-09

New, global and extended markets are forcing companies to process and manage increasingly differentiated products with shorter life cycles, low volumes and reduced customer delivery times. In today's global marketplace production systems need to be able to deliver products on time, maintain market credibility and introduce new products and services faster than competitors. As a result, a new production paradigm of a production system has been developed and a supporting management decision-making approach simultaneously incorporating design, management, and control of the production system is necessary so that this challenge can be effectively and efficiency met. "Maintenance Engineering and its Applications in Production Systems" meets this need by introducing an original and integrated idea of maintenance: maintenance for productivity. The volume starts with the introduction and discussion of a new conceptual framework based on productivity, quality, and safety supported by maintenance. Subsequent chapters illustrate the most relevant models and methods to plan, organise, implement and control the whole maintenance

process (reliability evaluation models and prediction, maintenance strategies and policies, spare parts management, computer maintenance management software – CMMS, and total productive maintenance – TPM, etc.). Several examples of problems supported by solutions, and real applications to help and test the reader's comprehension are included. "Maintenance Engineering and its Applications in Production Systems" will certainly be valuable to engineering students, doctoral and post-doctoral students and also to maintenance practitioners, as well as managers of industrial and service companies.

A Systematic Approach to Internal Spare Parts Management - Paul William Meggs 2014

Internal spare parts management is a universal issue faced by all manufacturers, and involves decision-making and planning across a highly complex and heterogeneous group of thousands of items. Spare parts exhibit intermittent demand and a variety of prices, lead times, and potential downtime costs that pose challenges for planning and control. Managers can facilitate spare parts decision-making through the utilization of classification methods to prioritize critical parts and forecasting tools to better establish inventory policies. This thesis explores a

classification method to evaluate the criticality of spare parts using the Analytic Hierarchy Process and applies bootstrapping forecast techniques to better inform safety stock levels. A joint classification and forecasting model is developed and validated for use by supply chain and maintenance teams in the organization. Through improved safety stock settings, an inventory savings of up to 39% is identified while maintaining or increasing service levels for critical spare parts. For most manufacturing companies, the approaches and findings discussed in this thesis are applicable and can be used to aid efforts in establishing a systematic approach to internal spare parts.

Cutting-Edge Maintenance Management Strategies

- Rolly Angeles 2020-04-26

During the start of this year 2020, I have been thinking a lot about the need to right my fourth book on maintenance. What title should I give this book and why? What industries need today are Cutting-Edge Maintenance Management Strategies that can be explained in a straightforward and simple manner for industries that they can easily adopt. Today what every industry need is a way on how to survive their competition and remain in business. I started drafting this book on March 16, 2020. We all know about this pandemic on covid 19, which have struck the whole world and affected so many businesses and industries in all countries globally. Many industries have been halted by this pandemic, and many jobs were lost as a result. Honestly speaking, I am not certain when this pandemic will end since as of this writing, the number of cases is increasing exponentially and vaccine is still unavailable. It is my hope that once everything goes back to normal, leaders in industries can learn from experience to manage the risks involved and sustain their assets more intelligently. When I first published my first book on World Class Maintenance Management the 12 Disciplines in 2009, I thought I have written everything there is to know in order to achieve a level of World-Class Maintenance Management.

Through the years, what I learned so far is that having a World Class Maintenance is very different from achieving a World Class Reliability in the organization. There are also many developments and changes today in maintenance that we need to adopt. The reason for writing this book is not only for the readers to understand the new trends in maintenance, but also for them to understand the reason for using them. These strategies must be adopted by industries for their own advantage because in today's phase, the law of the jungle applies and that is, survive now or be left behind. Cutting-Edge Maintenance Management Strategies: This book also a sequel deals with the different cutting-edge maintenance strategies that must be adopted by industries in order for them to survive their competition. In industries today, the law of the jungle applies, survive or be left behind. Learn how these strategies can link together in building a solid maintenance structure in the plant. Finally understand Learn these cutting-edge maintenance strategies in helping build the reliability culture for industries.

Maintenance and Spare Parts Management - P. GOPALAKRISHNAN 2013-04-08

This well-received text, designed for the students of MBA, BTech (Mechanical Engineering and Industrial and Production Engineering) and MTech (Industrial Engineering and Management), has been revised and reorganized in its second edition. The book, divided into six sections, deals with the concepts of core maintenance and related auxiliary functions, core spares issues, related auxiliary spares functions, caselets and policy cases. This research-based study attempts to impart a comprehensive knowledge of maintenance and spare parts management, particularly in the Indian context. Illustrations, tables, caselets, cases and presentation of several topics in A-Z points add pedagogic value to the text.

Spare Parts Inventory Management - Phillip Slater 2016-11-25

Overview No previous works have focused on the

topic of inventory reduction and optimization to the extent that this one does. Spare Parts Inventory Management: A Complete Guide to Sparesology(tm) by Philip Slater covers the whole part's life cycle, from initial purchase to final disposal, and addresses issues throughout, including maintenance, repair, and overhaul (MRO). The author, Phillip Slater, was described in a recent podcast as "truly one of the leaders in the MRO information segment." Sparesology is a term coined by Slater to describe the discipline of optimizing the physical, financial, and human resource management processes of spare parts inventory management. Sparesology is much more than just inventory optimization. It involves an understanding of the complete "ecosystem," within which the spare parts inventory is managed, and seeks to ensure that all of the factors influencing this management work together to achieve an organization's goals.

Inventory Management, Spare Parts and Reliability Centred Maintenance for Production Lines - Fausto Galetto 2010

Navy Inventory - U S Government Accountability Office (G 2013-07)

The military's ability to carry out its mission depends on having adequate supplies of spare parts on hand for equipment maintenance. Shortages are a key indicator of whether the billions of dollars spent on these parts each year are used effectively, efficiently, and economically. The Navy has acknowledged in recent years that its aviation systems have significant readiness and supply problems. Since 1990, GAO has included Defense Department (DOD) inventory management, including spare parts, on its list of government functions at high risk for waste, fraud, abuse, and mismanagement. This report reviews (1) the impact of shortages of spare parts for two selected aircraft--the EA-6B Prowler and F-14 Tomcat, (2) the reasons for the shortages, and (3) the initiatives that the Navy and the Defense Logistics Agency have in place or planned to address overall spare part

shortage issues. GAO found that spare parts shortages for the two aircraft have harmed Navy's readiness and the economy and efficiency of maintenance activities. Spare parts shortages have contributed to problems retaining military personnel. Navy managers attributed the spare parts shortages to the fact that more parts were required than the Navy originally anticipated and that problems arose in identifying, quantifying, or contracting with a private company to produce or repair the parts. The Navy and the Defense Logistics Agency have many logistics initiatives planned or under way to improve the logistic system and alleviate shortages of spare parts. The initiatives include best commercial inventory practices and generally address the causes GAO identified regarding spare parts shortages.

Inventory Management-principles and Practices. - P. Narayan 2009

The book *Inventory Management Principles and Practices* explains all the fundamental principles of Inventory Management. It starts with a definition of Inventory, why it is needed as well as not needed, what is its impact on a business, how do we classify them for ease of control and what are the various techniques of inventory control. Inventory is an outcome of procurement. So obviously, while studying inventories, the logic behind its procurement should be studied. Hence, chapters on Manufacturing Resources Planning have been added. Just-in-time principles and TQM are some more methods of achieving world-class manufacturing, so they have also been included here. In the present scenario, all activities are being computerized. So lessons on e-commerce as well as all the latest technologies that are affecting Inventory Management have been included. Chapters have been included on methods to handle specific classes of inventories such as spare parts inventory, finished goods inventory, work-in-process inventory, surplus, obsolete and non-moving inventory, etc. Logistics and supply chain management defines the path which a material

takes in its life through a company. So it was essential to include a chapter on it also. Keeping in mind the syllabus prescribed in the various universities on this subject, the chapters have been designed accordingly. A chapter has also been included on some motivational thoughts outlining some principles, which would help us to become successful in life. The principles outlined here are universal, applicable to any situation, organization or country.

Improving the Army's Management of Repairable Spare Parts - John R. Folkson 2005

This report addresses initial efforts to expand the Army's logistics-process improvement efforts initiative by applying an integrative approach to improving the responsiveness, reliability, and efficiency of the Army's national-level inventory management and depot-level component-repair processes. The goal of these processes is to repair sufficient assets to replenish serviceable inventories to meet the needs of requirements determined to support equipment readiness. The examination of the repairable-management process identified three key issues that need to be addressed: (1) the impact of uncertainty and variability in customer demands on long-term planning forecasts; (2) the need for increased emphasis on near-term replanning for execution; and (3) the inability of repair responsiveness to meet changing requirements. A case study of the M88A1 armored recovery vehicle engine is used to illustrate the integrated process-improvement approach, and a variety of alternatives for improving both planning and repair activities are presented. It is suggested that a pilot effort be undertaken to develop and test alternative approaches to the implementation of improvement initiatives. The results obtained in a pilot implementation could be measured, rules could be adjusted, and confidence would be developed in the selected improvement approaches.

Maintenance, Modeling and Optimization -

Mohamed Ben-Daya 2012-12-06

Production costs are being reduced by automation,

robotics, computer-integrated manufacturing, cost reduction studies and more. These new technologies are expensive to buy, repair, and maintain. Hence, the demand on maintenance is growing and its costs are escalating. This new environment is compelling industrial maintenance organizations to make the transition from fixing broken machines to higher-level business units for securing production capacity. On the academic front, research in the area of maintenance management and engineering is receiving tremendous interest from researchers. Many papers have appeared in the literature dealing with the modeling and solution of maintenance problems using operations research (OR) and management science (MS) techniques. This area represents an opportunity for making significant contributions by the OR and MS communities. Maintenance, Modeling, and Optimization provides in one volume the latest developments in the area of maintenance modeling. Prominent scholars have contributed chapters covering a wide range of topics. We hope that this initial contribution will serve as a useful informative introduction to this field that may permit additional developments and useful directions for more research in this fast-growing area. The book is divided into six parts and contains seventeen chapters. Each chapter has been subject to review by at least two experts in the area of maintenance modeling and optimization. The first chapter provides an introduction to major maintenance modeling areas illustrated with some basic models. Part II contains five chapters dealing with maintenance planning and scheduling. Part III deals with preventive maintenance in six chapters. Part IV focuses on condition-based maintenance and contains two chapters. Part V deals with integrated production and maintenance models and contains two chapters. Part VI addresses issues related to maintenance and new technologies, and also deals with Just-in-Time (JIT) and Maintenance. Spare Parts Inventory Control under System Availability Constraints - Geert-Jan van Houtum

2015-05-20

This book focuses on the tactical planning level for spare parts management. It describes a series of multi-item inventory models and presents exact and heuristic optimization methods, including greedy heuristics that work well for real, life-sized problems. The intended audience consists of graduate students, starting scholars in the field of spare parts inventory control, and spare parts planning specialists in the industry. In individual chapters the authors consider topics including: a basic single-location model; single-location models with multiple machine types and/or machine groups; the multi-location model with lateral transshipments; the classical METRIC model and its generalization to multi-indenture systems; and a single-location model with an explicit modeling of the repair capacity for failed parts and the priorities that one can set there. Various chapters of the book are used in a master course at Eindhoven University of Technology and in a PhD course of the Graduate Program Operations Management and Logistics (a Dutch network that organizes PhD courses in the field of OM&L). The required pre-knowledge consists of probability theory and basic knowledge of Markov processes and queuing theory. End-of-chapter problems appear for all chapters, with some answers appearing in an appendix.

INVENTORY MANAGEMENT - D. CHANDRA BOSE 2006-01-01

Inventory control is vitally important to almost any type of industry, whether product or service-oriented. Investments in raw materials, spare parts, work-in-progress and finished products are all critical costs of operations which if not controlled can lead to high capital costs, high operating costs, and decreased production efficiency. This book focuses on the problems of materials control in small-scale manufacturing industries. It explains how to optimize the available resources with a view to reducing material costs and achieving improved capital turnover. It also analyzes a few

selected industries and critically reviews their performance in the area of inventory control. The book is designed as a text on inventory management for postgraduate students pursuing courses in commerce, management, and business studies. It is also suitable for all those studying for professional qualifications such as CA, ICWA, and CS.

Spare Parts Inventory Control under System Availability Constraints - Geert-Jan van Houtum 2015-05-18

This book focuses on the tactical planning level for spare parts management. It describes a series of multi-item inventory models and presents exact and heuristic optimization methods, including greedy heuristics that work well for real, life-sized problems. The intended audience consists of graduate students, starting scholars in the field of spare parts inventory control, and spare parts planning specialists in the industry. In individual chapters the authors consider topics including: a basic single-location model; single-location models with multiple machine types and/or machine groups; the multi-location model with lateral transshipments; the classical METRIC model and its generalization to multi-indenture systems; and a single-location model with an explicit modeling of the repair capacity for failed parts and the priorities that one can set there. Various chapters of the book are used in a master course at Eindhoven University of Technology and in a PhD course of the Graduate Program Operations Management and Logistics (a Dutch network that organizes PhD courses in the field of OM&L). The required pre-knowledge consists of probability theory and basic knowledge of Markov processes and queuing theory. End-of-chapter problems appear for all chapters, with some answers appearing in an appendix.

Management of Spare Parts and Maintenance Stores - C. Rogers 1990

Smart Inventory Solutions - Phillip Slater 2010

Engineers and reliability professionals are increasingly being held accountable for materials and spare parts inventory management and in response they need to gain a better understanding of materials and spare parts inventory management principles and practices. This practical book delivers just that. This new edition will help you get the right parts, in the right place, at the right time, for the right reason. Fully revised, it provides specific coverage of the issues faced in, and requirements for, managing engineering materials and spare parts and what to do to improve your results. It includes 29 exclusive examples and real life case studies to demonstrate the application of the concepts and ideas so that you will easily and quickly understand how to implement them. What's more it will show you: What to do to truly optimize your inventory holdings, Why inventory levels are almost always too high, How to identify the factors that have greatest impact on your inventory levels, When to apply the 7 Actions for Inventory Reduction, Where to focus your efforts for greatest effect, and Who to involve in taking action. The concepts, ideas, tools, and processes in this book have helped many companies achieve and sustain results that other inventory tools and approaches just could not match. And it is sure to help you achieve true inventory optimization as well. The second edition includes... A new chapter on The Mechanics of Inventory Management, a pragmatic review of the management of inventory including... Introducing the Materials and Inventory Management Cycle, Comparing theoretical and actual inventory outcomes, Discussion on normal and Poisson distribution models, How to determine the re order point, How to determine the re order quantity, and Commentary on Monte Carlo simulation. An expanded chapter on the financial impact of inventory, including a discussion of the key reports that need to be understood. Chapters on the influence of policies, procedures, and people. Additional discussion on issues faced and how to address them. An expansion of the central process

discussed in the first edition to a more comprehensive review process...Inventory Process(TM) Optimization. An expanded section on executing an inventory review program. A closing 'where to from here' chapter. 57 figures and diagrams - 30 of them new and the others all revised and updated and six new tables (with 8 in total). Eight new checklists - specifically included as a new tool for the reader and is the result of direct reader requests. An expanded glossary.

On the Integration of Additive Manufacturing for Aircraft Spare Parts Inventory Control - Youssef Abidar 2022

Spare parts inventory management represents a challenge for aircraft companies. Determining the optimal allocation and consumption of spare parts is problematic due to the intermittent demand. Original equipment manufacturer (OEM) uses different models to evaluate inventory stock level to avoid the non-availability of the desired spare parts when required. With the recent implementation of additive manufacturing (AM) in many sectors, the implications of AM for spare parts inventory management and control models need more attention. This paper aims to evaluate the advantage of AM integration for spare parts optimization in a multi-echelon inventory system. It compares three scenarios for non-moving, slow-moving, and fast-moving spare parts. A scenario-based modeling approach is followed to draw out insights for managers. The first scenario considers the conventional case where there is no integration of AM. The second scenario considers AM integration only in the central maintenance center (CMC). The third scenario assumes AM integration in CMC and regional maintenance centers (RMC). This analysis showed that when AM repair time is inferior to conventional process (CP) repair time, the best scenario for AM manufacturing integration is a decentralized AM location. And when AM repair time equals CP repair time, and AM repair probability is superior to 70%, the decentralized scenario still the optimal integration solution.

However, when the AM repair time equals CP repair time, and the AM repair probability is inferior to 70%, the centralized scenario is the optimal integration solution. Moreover, non-moving and slow-moving spare parts are the most suitable categories for optimal AM allocation. Finally, the paper offers guidelines on adopting AM in the aircraft supply chain and the impact on spare part inventory management.

Handbook of Research on Promoting Business Process Improvement Through Inventory Control Techniques - Shah, Nita H. 2017-12-22

Stock management and control is a critical element to the success and overall financial well-being of an organization. Through the application of innovative practices and technology, businesses are now able to effectively monitor their operations and manage their inventory by evaluating sales patterns and customer preferences. The Handbook of Research on Promoting Business Process Improvement Through Inventory Control Techniques is a critical scholarly resource that examines optimization techniques, data mining concepts, and genetic algorithms to manage inventory control. Featuring coverage on a broad range of topics such as logistics and supply chain management, stochastic inventory modelling, and inventory management in healthcare, this book is geared towards academicians, practitioners, and researchers seeking various research methods to get optimal ordering policy.

Intermittent Demand Forecasting - John E. Boylan 2021-06-08

INTERMITTENT DEMAND FORECASTING The first text to focus on the methods and approaches of intermittent, rather than fast, demand forecasting Intermittent Demand Forecasting is for anyone who is interested in improving forecasts of intermittent demand products, and enhancing the management of inventories. Whether you are a practitioner, at the sharp end of demand planning, a software designer, a student, an academic teaching operational research or operations management courses, or a researcher in this field, we hope that

the book will inspire you to rethink demand forecasting. If you do so, then you can contribute towards significant economic and environmental benefits. No prior knowledge of intermittent demand forecasting or inventory management is assumed in this book. The key formulae are accompanied by worked examples to show how they can be implemented in practice. For those wishing to understand the theory in more depth, technical notes are provided at the end of each chapter, as well as an extensive and up-to-date collection of references for further study. Software developments are reviewed, to give an appreciation of the current state of the art in commercial and open source software. “Intermittent demand forecasting may seem like a specialized area but actually is at the center of sustainability efforts to consume less and to waste less. Boylan and Syntetos have done a superb job in showing how improvements in inventory management are pivotal in achieving this. Their book covers both the theory and practice of intermittent demand forecasting and my prediction is that it will fast become the bible of the field.” —Spyros Makridakis, Professor, University of Nicosia, and Director, Institute for the Future and the Makridakis Open Forecasting Center (MOFC). “We have been able to support our clients by adopting many of the ideas discussed in this excellent book, and implementing them in our software. I am sure that these ideas will be equally helpful for other supply chain software vendors and for companies wanting to update and upgrade their capabilities in forecasting and inventory management.” —Suresh Acharya, VP, Research and Development, Blue Yonder. “As product variants proliferate and the pace of business quickens, more and more items have intermittent demand. Boylan and Syntetos have long been leaders in extending forecasting and inventory methods to accommodate this new reality. Their book gathers and clarifies decades of research in this area, and explains how practitioners can exploit this knowledge to make their operations more efficient

and effective.” —Thomas R. Willemain, Professor Emeritus, Rensselaer Polytechnic Institute.

Spare Parts Demand Forecasting and Inventory Management - Sha Zhu 2021

Handbook of Maintenance Management and Engineering - Mohamed Ben-Daya 2009-07-30

To be able to compete successfully both at national and international levels, production systems and equipment must perform at levels not even thinkable a decade ago. Requirements for increased product quality, reduced throughput time and enhanced operating effectiveness within a rapidly changing customer demand environment continue to demand a high maintenance performance. In some cases, maintenance is required to increase operational effectiveness and revenues and customer satisfaction while reducing capital, operating and support costs. This may be the largest challenge facing production enterprises these days. For this, maintenance strategy is required to be aligned with the production logistics and also to keep updated with the current best practices. Maintenance has become a multidisciplinary activity and one may come across situations in which maintenance is the responsibility of people whose training is not engineering. This handbook aims to assist at different levels of understanding whether the manager is an engineer, a production manager, an experienced maintenance practitioner or a beginner. Topics selected to be included in this handbook cover a wide range of issues in the area of maintenance management and engineering to cater for all those interested in maintenance whether practitioners or researchers. This handbook is divided into 6 parts and contains 26 chapters covering a wide range of topics related to maintenance management and engineering.

Profitable Maintenance - 1997

Service Parts Management - Nezhil Altay
2011-03-24

With the pressure of time-based competition

increasing, and customers demanding faster service, availability of service parts becomes a critical component of manufacturing and servicing operations. Service Parts Management first focuses on intermittent demand forecasting and then on the management of service parts inventories. It guides researchers and practitioners in finding better management solutions to their problems and is both an excellent reference for key concepts and a leading resource for further research. Demand forecasting techniques are presented for parametric and nonparametric approaches, and multi echelon cases and inventory pooling are also considered. Inventory control is examined in the continuous and periodic review cases, while the following are all examined in the context of forecasting: • error measures, • distributional assumptions, and • decision trees. Service Parts Management provides the reader with an overview and a detailed treatment of the current state of the research available on the forecasting and inventory management of items with intermittent demand. It is a comprehensive review of service parts management and provides a starting point for researchers, postgraduate students, and anyone interested in forecasting or managing inventory.

Service Parts Planning with SAP SCMTM - Jörg Thomas Dickersbach 2015-04-21

This book focusses on the after sales business and presents the Service Parts Planning (SPP) solution which was developed by SAP in a joint effort with Caterpillar and Ford in order to address the specific planning problems of service parts. The book explains the processes, structures, and functions of this solution and is targeted at decision makers, project members and project managers who are involved in an implementation of SAP Service Parts Planning or for users who want to gain a better understanding of the state of art in spare parts planning and the SAP Service Parts Planning software.

Problems & Solutions in Inventory Management - Dinesh Shenoy 2017-10-05

This book presents a compilation of over 200 numerical problems and solutions that students can use to learn, practice and master the Inventory Control and Management concepts. Intended as a companion to any of the standard textbooks in Inventory Control and Management and written in simple language, it illustrates very clearly the steps students need to follow in order to solve a given problem. It also explains which solution methodologies can be used under which circumstances. Offering an ideal one-stop resource for mid-level engineering and business students who have taken Inventory Management or a related subject as an elective, this book is the only one students will ever need to prepare and gain confidence for their examinations in this subject.

Surviving the Spare Parts Crisis - Joel Levitt 2017

The maintenance spare parts business is in turmoil. There have been fundamental changes in the sale, distribution, and storage of spare parts needed to maintain machinery and other physical assets. The key to uptime in manufacturing is managing risk, and *Surviving the Spare Parts Crisis: Maintenance Storeroom and Inventory Control* by Joel Levitt describes how to evaluate risk in the inventory. Levitt shares knowledge he has gained over more than 30 years of consulting companies and providing training to professionals who are facing problems with their spare parts inventory. His latest book shows how the maintenance department can provide better support to purchasing agents and buyers. It provides dozens of ideas to properly reduce inventory, reduce usage, and save money in parts, all while maintaining service levels. This text is the only one available that not only covers the conventional wisdom, but also deals with the new realities of today's market space. This is an ideal resource for maintenance managers, planners, and engineers; parts specialists; supply chain managers; and anyone involved in purchasing.

Audel Managing Maintenance Storerooms - Michael V. Brown 2004-08-13

Manage to save time and money A properly

managed storeroom is the difference between having parts when you need them and spending too much time and money getting them when the need becomes critical. This book shows you how to plan, equip, stock, catalog, and manage a storeroom that will benefit both your workers and the company. Discover cost-effective ways to maintain essential stock, how to conduct audits, and even ways to negotiate better prices. * Choose the most practical site, storage system, lighting, and security * Plan what parts you need, when they should arrive, and how best to catalog them * Set standards and balance quality and price * Plan an efficient physical layout and organize your storeroom to balance space limitations against shelving cost * Establish an inventory system that works * Learn what you need to know about purchasing laws, contracts, warranties, and ethical practices

Problems and Solutions on MRO Spare Parts and Storeroom - Rolly Angeles 2020-07-26

Problems and Solutions on MRO Spare Parts and Storeroom - Rolly Angeles 2020-07-26

Problems and Solutions on MRO Spare Parts and Storeroom - Rolly Angeles 2020-07-25

This book is written for industries in search of seeking solutions on their MRO Spare Parts and Storeroom problems. MRO Spare Parts and Storeroom Management is one of the most most neglected maintenance strategies in any maintenance optimization and strategies, which should not be the case. Others say that this is the missing link to any reliability and maintenance improvement. Almost every type of industry whether from manufacturing, processing, pharmaceutical, power plants, mining, construction, aviation, oil and gas have a storeroom in place to keep their spare parts. There are two main goals of MRO Spare Parts and Storeroom, which is quite conflicting. This is to create a balance on minimizing the cost of spares inventory as well as providing all the parts and supplies needed to keep the plant

operating. It may sound conflicting or contradicting but thinking about this thoroughly it is really not conflicting if the MRO Storeroom is well managed. The role of maintenance is to make the equipment available. If the equipment fails and the part is not available in the storeroom, the machine becomes idle and operation is halt. On the contrary, we just cannot simply stock every single part of every piece of equipment we have in the plant that is if your industry still wants to remain in business. The items inside the storeroom can range from 1,000 for a small-scale industry to more than 200,000 parts or even more for a large-scale industry. All industries have a place to store and keep spares for their equipment, which is needed for repairs, and Preventive Maintenance activities, but not all industries have knowledge on how to manage their storeroom and spare parts. In fact, MRO storeroom and spare parts is one of the strategies where maintenance can truly save cost big time. In other industries, the problems on MRO Spare Parts are chronic and may have been existed for decades. If industries are serious in improving their storeroom and finding the correct solutions on their MRO Spare Parts and Storeroom, this book is a must read not only for storekeepers but also for maintenance, purchasing, finance, and especially the c-level people to find out what their missing. Here are some of the highlights included in this book.- Provide a decision making process on whether to stock or not to stock parts through a MRO Decision Diagram or Algrothim- What can we do about squirrel stores and how to eliminate them permanently- Learn the basic "Golden Law" on MRO Spare Parts Management- Learn several options on what to do for obsolete parts inside the storeroom.- Learn one option on what to do with non-moving parts- Learn why not all critical parts need to be stock in the storeroom.- Learn several factors to consider before making a decision on whether to stock or not to stock parts in the storeroom- Learn a much better way of determining the minimum quantity to be stored

besided min-max and EOQ calculation.- Provide the reader with a step by step roadmap on how to finally improve their MRO Storeroom- Understand who are the best people or function to handle the maintenance storeroom and why- Learn that one of the most important functions of the storekeeper is about maintaining and care for the spare parts.- Understand why improving the storeroom should be done inside and outside the storeroom. - And many more. Majority of the problems on industries can be solved as mentioned in this book if industries are willing to make changes in how they do things in the plant. Industries that achieve a level of World Class Maintenance were not born that way. They were also reactive in the past but the leaders have a change of heart, and propelled their workforce to a new direction so that they can stand off from the rest and compete globally in this fierce world of competition.

Analysis and Algorithms for Service Parts Supply Chains - John A. Muckstadt 2006-12-26

* Provides a broad overview of modeling approaches and solution methodologies for addressing inventory problems, particularly the management of high cost, low demand rate service parts found in multi-echelon settings * The text may be used in a variety of courses for first-year graduate students or senior undergraduates, or as a reference for researchers and practitioners * A background in stochastic processes and optimization is assumed

Advances in Life Cycle Engineering for Sustainable Manufacturing Businesses - Shozo Takata 2007-07-26

Life cycle engineering explores technologies for shifting industry from mass production and consumption paradigms to closed-loop manufacturing paradigms, in which required functions are provided with the minimum amount of production. This subject is discussed from various aspects: life cycle design, design for environment, reduce-reuse-recycle, life cycle assessment, and sustainable business models. This book collects papers from the 14th International CIRP Life Cycle

Engineering Conference, the longest-running annual meeting in the field.

Production Spare Parts - Eugene C. Moncrief 2006

Covering stocking theory and practice, this compilation of the best techniques and practices for optimizing MRO inventory offers numerous case studies showing the best--and the not-so-best--ways to improve plant inventory performance. Based on practical solutions to everyday inventory problems, it uses simple but useful metrics for setting and monitoring goals.

HANDBOOK OF MATERIALS MANAGEMENT - P. GOPALAKRISHNAN 2015-01-13

This comprehensive research based, well received book, now in its Second Edition, continues to provide the most complete up-to-date coverage of the materials management discipline. It is the result of intensive and in-depth interactions of the authors with academic community, IIMM professionals as well as senior executives involved in materials, inventory, warehousing, logistics, supply chain, working capital and top management. This title reflects the wealth of experience gained by the authors in India and abroad in training, research, teaching and consultancy. This well-organised comprehensive book clearly analyses all the concepts, processes and applications of Materials Management, Supply Chain Management, Logistics Management, and Multimodal Transport. It covers basic principles and practices concerning these areas as well as to its application in Indian conditions. This textbook describes the concept of integrated materials management with the help of diagrams, charts, photos and solved examples, covering all the aspects of materials management. It provides a number of solved practical problems and examples for better comprehension. The suggestions of practising professionals, academicians and researchers have been appropriately incorporated in this book. An attempt has been made to strike a balance between conceptual frameworks and practical aspects of materials and its management. Intended primarily as a textbook for graduate

students pursuing materials management courses in Indian universities, this comprehensive title will also serve as a ready reckoner for the executives practising in areas such as materials, logistics, SCM, purchase, warehousing and inventory management. The students of business management, engineering, Indian Institute of Materials Management (IIMM) diploma and other related programs/courses will find this book extremely useful.

Spare Parts Management A Complete Guide - 2020 Edition - Gerardus Blokdyk 2019-09-30

Is the degree and level of supervision appropriate? What is maintenance and why is it performed? How do you store spare parts? What ideas do you have for improving your work area? Who are involved in decision-making about aftermarket materials management? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Spare Parts Management investments work better. This Spare Parts Management All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Spare Parts Management Self-Assessment. Featuring 987 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Spare Parts Management improvements can be

made. In using the questions you will be better able to: - diagnose Spare Parts Management projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Spare Parts Management and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Spare Parts Management Scorecard, you will develop a clear picture of which Spare Parts Management areas need attention. Your purchase includes access details to the Spare Parts Management self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Spare Parts Management Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

Navy Inventory - United States. General Accounting Office 2001

Asset Maintenance Management in Industry - Rama Srinivasan Velmurugan 2021-05-27

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.

Reliability Based Spare Parts and Materials Management - Donald Armstrong 2006

Maintenance Storerooms and MRO - Made Simple - Daniel M. DeWald 2012-10-17

The maintenance storeroom is a key department in a facility. It is a profit center and supports Preventive Maintenance (PM) and Predictive Maintenance (PdM) efforts. It supplies parts for emergencies and unexpected breakdowns. It contributes to improving reliability for maintenance by the purchase and storage of quality parts. Equipment Bills of Materials are kept up to date and maintained, so that the right parts, right quantities, with the right specifications are able to be determined by the buyer, and by the maintenance crew. The storeroom is an integral piece of the maintenance strategy. This book discusses the five strong pillars needed to develop a program of MRO (Maintenance parts, repair parts, and operating supplies) and the maintenance storeroom. These pillars together create a solid base to move forward and become a reliability excellent storeroom that is responsive to the needs of maintenance, the plant, and the enterprise.

Introduction to Medical Equipment Inventory Management - World Health Organization 2011-12-15

WHO and partners have been working towards devising an agenda, an action plan, tools and guidelines to increase access to appropriate medical devices. This document is part of a series of reference documents being developed for use at the country level. The series will include the following

subject areas: * policy framework for health technology * medical device regulations * health technology assessment * health technology management * needs assessment of medical devices * medical device procurement * medical equipment donations * medical equipment inventory management * medical equipment maintenance * computerized maintenance management systems * medical device data * medical device nomenclature * medical devices by health-care setting * medical devices by clinical procedures * medical device innovation, research and development. These documents are intended for use by biomedical engineers, health managers, donors, nongovernmental organizations and academic institutions involved in health technology at the district, national, regional or global levels. Once established, the inventory serves as the foundation for moving forward within the HTM system and ensuring safe and effective medical equipment. The inventory may be used to develop budgets for capital purchases, maintenance and running costs; to

build and support an effective clinical engineering department, by allowing for workshop planning, hiring and training of technical support staff, and establishing and maintaining service contracts; to support an effective medical equipment management program, such as planning preventive maintenance activities and tracking work orders; and to plan the stock of spare parts and consumables. The inventory may also be used to support equipment needs assessment within the health-care facility and to record the purchase, receipt, retirement and discarding of equipment. Facility risk analysis and mitigation, and emergency and disaster planning, are also supported by an inventory.

Essentials of Inventory Management - Max Muller 2011

Does inventory management sometimes feel like a waste of time? Learn how to maximize your inventory management process to use it as a tool for making important business decisions.