

# Performance Measures

- **Job flow time:** The amount of time a job spends in the service or manufacturing system. Also referred to as *throughput time* or *time spent in the system, including service*.
- **Makespan:** The total amount of time required to complete a group of jobs.
- **Past due (Tardiness):** The amount of time by which a job missed its due date or the percentage of total jobs processed over some period of time that missed their due dates.
- **Work-in-process (WIP) inventory:** Any job that is waiting in line, moving from one operation to the next, being delayed, being processed, or residing in a semi-finished state.
- **Total inventory:** The sum of scheduled receipts and on-hand inventories.
- **Utilization:** The percentage of work time that is productively spent by an employee or machine.

# How To Measure Maintenance Performance

**Peter Darling, Society for Mining,  
Metallurgy, and Exploration (U.S.)**



## **How To Measure Maintenance Performance:**

**How to Measure Maintenance Performance** Sohei Hibi, Asian Productivity Organization, 1980      How to Measure Maintenance Performance Sohei Hibi, Sōhei Hibi, 1977 Monograph describing an evaluation technique for efficiency measurement in equipment maintenance covers engineering and operational management functions repair costing for preventive and for breakdown systems etc and includes mathematical formulae Diagrams graphs and references      *How to Measure Maintenance Performance* Sōhei Hibi, 1977      Measurement of Facilities Management Performance in Ghana's Public Hospitals Daniel Amos, Cheong Peng Au-Yong, Zairul Nisham Musa, 2020-11-23 This book presents the concept of healthcare facilities management performance measurement HCFMPM using Ghana as a case study It set forth in depth theoretical and empirical underpinnings of performance measurement concepts for hospital facilities services with the view to demonstrate critical performance dimensions to improve FM contributions and added value to healthcare delivery The research approach adopted is mixed method encompassing qualitative interviews in case study setting and a questionnaire survey of sampled hospitals in Ghana The book presents a number of useful tables graphs as well as a pedagogic illustration of statistical analysis which are useful in understanding the concepts under reference It develops a structural equation model for performance measurement of FM services The book is of relevance to healthcare managers facilities management practitioners and academics towards measuring and improving FM performance in hospitals Although the data used in the analysis is based on the case study country Ghana the result is by extension useful to several developing countries faced with the challenge to improve FM services delivery in public hospitals as well as other facilities management sectors

**Maintenance Decision Making** Liliane Pintelon, Frank Van Puyvelde, 2006 Over the last decades maintenance management has evolved from a somewhat neglected function into a full fledged business function in the industry as well as in the service sector This book provides a structured approach to maintenance management It covers maintenance strategy decisions resource management assessment system design etc Decision support models and tools in these areas are discussed from the theoretical point of view and illustrated by numerous examples and case studies Due to its concept the book can be interesting for students as well as practitioners This book is the successor of Maintenance Management 2000 which gave an introduction in the field      Reliable Maintenance Planning, Estimating, and Scheduling Ralph Peters, 2014-11-19 Written specifically for the oil and gas industry Reliable Maintenance Planning Estimating and Scheduling provides maintenance managers and engineers with the tools and techniques to create a manageable maintenance program that will save money and prevent costly facility shutdowns The ABCs of work identification planning prioritization scheduling and execution are explained The objective is to provide the capacity to identify select and apply maintenance interventions that assure an effective maintenance management while maximizing equipment performance value creation and opportune and effective decision making The book provides a pre and post self assessment that will allow for measure competency

improvement Maintenance Managers and Engineers receive an expert guide for developing detailed actions including repairs alterations and preventative maintenance The nuts and bolts of the planning estimating and scheduling process for oil and gas facilities Step by step maintenance guide will provide long term results based operational services Case studies based on the oil and gas industry      **Handbook of Industrial and Systems Engineering** Adedeji B. Badiru,2005-12-15 Responding to the demand by researchers and practitioners for a comprehensive reference Handbook of Industrial and Systems Engineering offers full and easy access to a wide range of industrial and systems engineering tools and techniques in a concise format Providing state of the art coverage from more than 40 contributing authors many of whom a      **Rules of Thumb for Maintenance and Reliability Engineers** Ricky Smith,R. Keith Mobley,2011-03-31 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      *Maintenance Costs and Life Cycle Cost Analysis* Diego Galar,Peter Sandborn,Uday Kumar,2017-09-18 Authors have attempted to create coherent chapters and sections on how the fundamentals of maintenance cost should be organized to present them in a logical and sequential order Necessarily the text starts with importance of maintenance function in the organization and moves to life cycle cost LCC considerations followed by the budgeting constraints In the process they have intentionally postponed the discussion about intangible costs and downtime costs later on in the book mainly due to the controversial part of it when arguing with managers The book will be concluding with a short description of a number of sectors where maintenance cost is of critical importance The goal is to train the readers for a deeper study and understanding of these elements for decision making in maintenance more specifically in the context of asset management This book is intended for managers engineers researchers and practitioners directly or indirectly involved in the area of maintenance The book is focused to contribute towards better understanding of maintenance cost and use of this knowledge to improve the maintenance process Key Features Emphasis on maintenance cost and life cycle cost especially under uncertainty Systematic approach of how cost models can be applied and used in the maintenance field Compiles and reviews existing maintenance cost models Consequential and direct costs considered Comparison of maintenance costs in different sectors infrastructure manufacturing transport      *A Methodology for*

*Performance Measurement and Peer Comparison in the Public Transportation Industry* Paul Ryus, 2010 TRB's Transit Cooperative Research Program TCRP Report 141 A Methodology for Performance Measurement and Peer Comparison in the Public Transportation Industry explores the use of performance measurement and benchmarking as tools to help identify the strengths and weaknesses of a transit organization set goals or performance targets and identify best practices to improve performance

*Advanced Techniques for Maintenance Modeling and Reliability Analysis of Repairable Systems* Garima Sharma, Rajiv Nandan Rai, 2023-10-31 ADVANCED TECHNIQUES FOR MAINTENANCE MODELING AND RELIABILITY ANALYSIS OF REPAIRABLE SYSTEMS This book covers advanced models and methodologies for reliability analysis of large complex and critical repairable systems that undergo imperfect maintenance actions in industries having MRO facilities and also covers real life examples from the field of aviation The content presented in this book is inspired by the existing limitations of the generalized renewal process GRP model and the problems confronted by the maintenance repair and operations MRO facilities in industries dealing with large and complex repairable systems Through this book the authors have attempted to equip the MRO facilities with more advanced scientific tools and techniques by addressing various limitations related to the reliability analysis of repairable systems The book is dedicated to various imperfect maintenance based virtual age models and methodologies to bridge various research gaps present in the available literature A summary of deliverables is as follows Presents the basic concepts of maintenance and provides a virtual age model that can accommodate all maintenance Provides the basic concepts of censoring in repairable systems along with the concept of black box and failure modes Also highlighted is how the proposed work will be useful for industries conducting failure modes and effect analysis FMEA and estimating the mean residual life MRL of repairable systems Presents methodology that applies risk based threshold on intensity function and provides a threshold to declare the system component as high failure rate components HFRCs Identifying a system as HFRCs is an important task but for an industry dealing with critical systems preventing the system from being HFRC is more important since the risk involved in such systems would be very high Thus the book presents a progressive maintenance policy PMP for repairable systems Focusses on qualitative analysis of repair quality Assuming repair quality as a subjective variable the authors have presented various factors that affect the repair quality most and modeled their interdependency using Bayesian networks BN Audience Professional reliability engineers reliability administrators consultants managers and post graduate students in engineering schools The book belongs to any engineering technical and academic institution concerned with manufacturing production aviation defense and software industries

*Principles of Loads and Failure Mechanisms* T Tinga, 2013-02-01 Failure of components or systems must be prevented by both designers and operators of systems but knowledge of the underlying mechanisms is often lacking Since the relation between the expected usage of a system and its failure behavior is unknown unexpected failures often occur with possibly serious financial and safety consequences Principles of Loads and Failure Mechanisms Applications in Maintenance

Reliability and Design provides a complete overview of all relevant failure mechanisms ranging from mechanical failures like fatigue and creep to corrosion and electric failures Both qualitative and quantitative descriptions of the mechanisms and their governing loads enable a solid assessment of a system s reliability in a given or assumed operational context Moreover a unique range of applications of this knowledge in the fields of maintenance reliability and design are presented The benefits of understanding the physics of failure are demonstrated for subjects like condition monitoring predictive maintenance prognostics and health management failure analysis and reliability engineering Finally the role of these mechanisms in design processes and design for maintenance are illustrated

**Engineering Asset Management** Joseph Mathew, Lin Ma, Andy Tan, Deryk Anderson, 2008-02-06 It is with great pleasure that we welcome you to the inaugural World Congress on Engineering Asset Management WCEAM being held at the Conrad Jupiters Hotel on the Gold Coast from July 11 to 14 2006 More than 170 authors from 28 countries have contributed over 160 papers to be presented over the first three days of the conference Day four will be host to a series of workshops devoted to the practice of various aspects of Engineering Asset Management WCEAM is a new annual global forum on the various multidisciplinary aspects of Engineering Asset Management It deals with the presentation and publication of outputs of research and development activities as well as the application of knowledge in the practical aspects of strategic asset management risk management in asset management design and life cycle integrity of physical assets asset performance and level of service models financial analysis methods for physical assets reliability modelling and prognostics information systems and knowledge management asset data management warehousing and mining condition monitoring and intelligent maintenance intelligent sensors and devices regulations and standards in asset management human dimensions in integrated asset management education and training in asset management and performance management in asset management We have attracted academics practitioners and scientists from around the world to share their knowledge in this important emerging transdiscipline that impacts on almost every aspect of daily life

**Handbook on Data Envelopment Analysis** William W. Cooper, Lawrence M. Seiford, Joe Zhu, 2011-08-23 This handbook covers DEA topics that are extensively used and solidly based The purpose of the handbook is to 1 describe and elucidate the state of the field and 2 where appropriate extend the frontier of DEA research It defines the state of the art of DEA methodology and its uses This handbook is intended to represent a milestone in the progression of DEA Written by experts who are generally major contributors to the topics to be covered it includes a comprehensive review and discussion of basic DEA models which in the present issue extensions to the basic DEA methods and a collection of DEA applications in the areas of banking engineering health care and services The handbook s chapters are organized into two categories i basic DEA models concepts and their extensions and ii DEA applications First edition contributors have returned to update their work The second edition includes updated versions of selected first edition chapters New chapters have been added on different approaches with no need for a priori choices of weights called

multipliers that reflect meaningful trade offs construction of static and dynamic DEA technologies slacks based model and its extensions DEA models for DMUs that have internal structures network DEA that can be used for measuring supply chain operations Selection of DEA applications in the service sector with a focus on building a conceptual framework research design and interpreting results     *Rules and Regulations* U.S. Nuclear Regulatory Commission,1987     *Scientific and Technical Aerospace Reports* ,1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database     **Closing the Knowledge Gap for Transit Maintenance Employees** David Finegold,Transit Cooperative Research Program,1998 This report presents guidelines on evaluating and implementing strategies to improve the skills of the transit industry s maintenance workforce in order to keep pace with evolving technology The report is intended to help maintenance departments develop highly skilled high performance work organizations Research was undertaken by Rand Corporation to assess technological demands document current practices and examine and propose new approaches to link maintenance staffing practices with evolving technology to improve effectiveness The areas addressed in the research included the range of programs currently in place differences and similarities in current practice analysis of major pitfalls and keys to success an examination of vendor roles and responsibilities in training and the effect of labor relations and work rules     **U.S. and International Approaches to Performance Measurement for Transportation Systems** ,2008 These proceedings contain a summary of the Transportation Research Board conference on U S and international approaches to performance measurement for transportation systems that was conducted on September 9 12 2007 at the Arnold and Mabel Beckman Center of the National Academies in Irvine California The theme for this third in a series of international conferences Better Decisions and Better Communication was selected to highlight opportunities for and experiences in using performance measurement as a strategic tool to better communicate goals and objectives and results to a wide range of stakeholder groups Presentations highlighted cases in which performance measures have proved useful in guiding resource allocation decisions improving day to day operations establishing and demonstrating agency competency and accountability and in some instances making the case for more resources The conference consisted of five plenary sessions each followed by a series of corresponding concurrent breakout sessions The topics of the five plenary sessions were Performance Measures as an Organizational Management Tool to Establish Accountability Communicating Performance Results Effectively to Your Customers Data and Tools Hot Topics addressing the use of performance measures to gauge the effectiveness of tolling and congestion pricing and other innovative transportation strategies to address sustainability and safety issues and Performance Based Contracting and Measuring Project Delivery Three resource papers were developed for the conference The conference attracted 180 participants from Canada Denmark Germany Italy Japan Mexico Sweden the United Kingdom and the United States and featured 70 transportation specialists offering real world expertise from the application of performance metrics to

case studies drawn from six countries This range of experiences provided attendees with a comprehensive overview of the performance measurement techniques and approaches being applied to transportation systems in the United States and abroad Pub desc     *Maintenance Engineering (Principles, Practices and Management)* Srivastava, Sushil Kumar, 2006 This book is highly useful for the students of B E B Tech of Punjab Technological University Jalandhar and aslo for the other Technological Universities of India as per New Syllabus Accordingly few sample question are given at the end of each chapter The chapter and topics covered in this book are expected to encompass the syllabus that may be needed by various colleges institutions in maintenance field It also serves as a reference book for students of all other engineering disciplines in universities colleges institutions and also vast numbers of engineer managers supervisors technologists and other persons working in or associated with maintenance and upkeep of machines equipments and systems in any shop plant or industry

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



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