

# Maintenance And Reliability Best Practices

Maintenance And Reliability Best Practices

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### CONCLUSION

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#### Maintenance and Reliability Best Practices *Industrial Press Inc.*

Introduction Vision, Mission and Strategy Maintenance Basics Planning and Scheduling Parts, Materials and Tools Management Reliability Operational Reliability M&R Tools Performance Measure - Metrics Human Side of M&R Best Practices/Benchmarking Maintenance Excellence Appendices

#### Maintenance and Reliability Best Practices *Industrial Press*

The first edition of the award-winning Maintenance and Reliability Best Practices immediately became one of the most widely read texts by maintenance, reliability, operations, and safety professionals. It is also being used at many colleges and universities throughout the world. Maintenance and Reliability Best Practices has become a standard reference for anyone preparing for maintenance and reliability professional exams. In the time since original publication, this book has become a must-have guide and reference. It helps everyone ensure that their organization's assets are operating as and when needed and at reasonable cost. The new Third Edition includes updates throughout, with new material on integrity, ethics, diversity, and standards, plus a focus on maintenance budgets and asset management.

#### Maintenance and Reliability Best Practices

Drawing upon the author's many years of shop floor and management experience in a variety of industries, this bestseller is designed to provide a basic yet thorough understanding of Maintenance and Reliability "Best Practices." This book recognizes that to implement best practices requires a workforce with a thorough understanding and knowledge of Maintenance and Reliability principles and the available technologies. But implementation is not as simple as just putting something new into effect. To truly implement a best practice requires learning, relearning, benchmarking, and realizing better ways of ensuring high reliability and availability of equipment and systems. This book explains and supports this ongoing process, and is an essential guide and reference for everyone who wants to ensure that their company's assets are operating as and when needed and at reasonable cost. It is ideal for designers who design the equipment; operators who operate; and maintainers who maintain, as well as warehouse and store personnel who procure and supply materials; engineers who improve the reliability; and human resource professionals who provide and arrange for a work force. Students specializing in the M&R field will also benefit, and a special student workbook (ISBN 9780831134358) will be published for the first time.

#### Maintenance and Reliability Best Practices

#### Maintenance and Reliability Best Practices *Industrial Press*

Drawing upon the authors many years of shop floor and management experience in a variety of industries, this

#### Rules of Thumb for Maintenance and Reliability Engineers *Butterworth-Heinemann*

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

**Wkbk to Accompany Maintenance and Reliability Best Practices**

**Lubrication and Maintenance of Industrial Machinery**

**Best Practices and Reliability** *CRC Press*

A-Z Guide for Maximum Cost Reduction and Increased Equipment Reliability To remain globally competitive, today’s manufacturing operations have greatly improved, but there is one last link in the advancement evolution. The reliability of manufacturing equipment must be improved in order to maximize the productive life of the equipment, eliminate unscheduled shut downs, and reduce operating costs. These are key components to maintaining a smooth work flow and a competitive edge. Written by peer-recognized industry experts, Lubrication and Maintenance of Industrial Machinery: Best Practices and Reliability provides the necessary tools for maintenance professionals who are responsible for the overall operational functions. With chapters culled from the second edition of the Handbook of Lubrication and Tribology, Volume 1 and a new introductory chapter, this more specialized and focused work supplies critical lubrication information that can be used on a daily basis to achieve greater machine reliability. Incorporating lean methods, this resource can be used by everyone involved in the production process, from supervisors to floor personnel. Recommended for STLE’s Certified Lubrication Specialist® Certification In addition to lubrication program development and scheduling, this volume also covers critical elements of the reliability equation, such as: Deterioration detection and measurement Lubrication cleanliness and contamination control Environmental implications of various lubricants Energy conservation Storage and handling Recycling of used oils This book fills a niche by specifically and comprehensively focusing on lubrication as part of the overall maintenance program. Under the editorial guidance of two of the most respected names in the field, this seminal work is destined to become an industry standard.

**Improving Maintenance and Reliability Through Cultural Change** *Industrial Press Inc.*

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.

**Maintenance Benchmarking and Best Practices** *McGraw Hill Professional*

Over the past decade, companies have redirected their maintenance operational focus from internal cost-cutting to profit-maximization. This approach is referred to as profit centered maintenance. Peters provides maintenance supervisors and managers with a benchmarking/best practices road-map called the Maintenance Operations Scoreboard. The Scoreboard will allow maintenance managers to: a) determine and quantify benefits and savings, b) improve craft productivity and c) define a strategy to improve efficiency and productivity. These things are at the heart of a successful Profit Centered Maintenance organization. The author-devised Maintenance Operations Scoreboard is used to perform over 200 maintenance evaluations in over 5,000 profit centered maintenance organizations. For example, at Honda of America, it was used extensively to direct maintenance strategy. It was later translated into Japanese for presentation to key Japanese executives. Another excellent example is Boeing Commercial Aircraft Inc. Boeing combined elements from this same Scoreboard with their company-wide maintenance goals to develop ‘The Boeing Scoreboard for Maintenance Excellence.’ Over 60 facility maintenance work units, at region, group and team levels, are evaluated at on-site visits using the Scoreboard criteria.

**Reliability-centered Maintenance** *Industrial Press Inc.*

Completely reorganised and comprehensively rewritten for its second edition, this guide to reliability-centred maintenance develops techniques which are practised by over 250 affiliated organisations worldwide.

**Total Productive Maintenance** *Industrial Press Inc.*

Completely revised and updated, this new edition of a classic reference focuses on the financial approach to the subjecta methodology that produces quantifiable results allowing a TPM program to be sustainable. And while clarifying what TPM is and what it is not, it clearly presents the economic value of TPM and shows how to calculate the Return on Investment (ROI) that a company can expect. It is the perfect resource for anyone who is considering implementing TPM or looking for ways of improving their current process.

**Reliability Centered Maintenance (RCM)**

**Implementation Made Simple** *McGraw Hill Professional*

A properly implemented and managed RCM program can save millions in unscheduled maintenance and breakdowns. However, many have found the process daunting. Written by an expert with over 30 years of experience, this book introduces innovative approaches to simplify the RCM process such as: single vs. multiple failure analysis, hidden failures analysis, potentially critical components analysis, run-to-failure and the difference between redundant, standby, and backup functions. Included are real life examples of flawed preventive maintenance programs and how they led to disasters that could have easily been avoided. Also illustrated in detail, with real-life examples, is the step-by-step process for developing, implementing, and maintaining a premier classical RCM program. Senior management, middle management, supervisors, and craftsmen/technicians responsible for plant safety and reliability will find this book to be invaluable as a means for establishing a first class preventive maintenance program.

**100 Years in Maintenance and Reliability**

**Practical Lessons from Three Lifetimes at Process Plants**

?This book is an essential tool to help pass on the wealth of knowledge of best practices to future generations of maintenance leaders. My only hope is that lots of professionals read it so that many companies and economies reap the benefits of these solid practices.” Joel Leonard ?The Maintenance Evangelist” MPACT Learning Center "The book represents a great wealth of practical experience on many topics ... an essential primer on maintenance topics ... from a practical point of view. I will make this required reading by the SAMI maintenance consultants. There is certainly food for thought even for the most experienced manager." S. Bradley Peterson President Strategic Asset Management, Inc. ?This is a must read for people who have to struggle with the day-to-day problems of plant life. If you have a subordinate field position in a manufacturing facility, this book will reveal why bosses do the things they do. If you are in a supervisory or management role, this book will help you steer your career.” Charles J. Latino CEO and President Reliability Center, Inc. This unique and practical book describes 42 real-life events and/or situations in the careers of the three authors from which they gained insights into the applicable best practices in maintenance and reliability. The authors explain the underlying philosophies where relevant, drawing on the teachings of the leading thinkers in leadership and management. Designed to share knowledge and experience with the readers, in a readily accessible fashion, this resource does not tell the readers what to do or how to do it; it merely explains the event or situation the authors faced, and how they dealt with it. Readers can choose whether they wish to adopt or adapt the authors' examples. These stories are dynamic illustrations of real life situations which readers will recognize in their own work situations. With a vast potential for improvements in reliability and maintenance performance in industry, these well proven approaches and best practices are sure to help stimulate improved performance on all fronts--safety and environmental, production, maintenance costs, and reputation! Provides a logical organization with chapters grouped into six broad headings, enabling readers to choose the order in which they wish to absorb the lessons, which are based on the Shewhart-Deming Continuous Improvement cycle. In addition to the Plan-Schedule-Execute-Analyze elements, the authors have added Leadership and People to complete the suite. Each chapter has broadly similar sections, beginning with a Background to the events, going on to describe the key elements of the approach, and ending with Lessons and Principles. Underlying theories, philosophies or even detailed descriptions of methods are stripped out of the main chapters and described in Appendices, so that only those readers who wish to delve into details may do so. Contains a Book Summary which draws all the principles and lessons together, and gives references to the relevant chapters. Copiously illustrated, with charts, diagrams and tables which relate closely to the text.

**Failure Mapping**

**A New and Powerful Tool for Improving Reliability and Maintenance** *JPS*

Designed to be easy to read and perfect for busy people who have little time, this unique book provides an introduction to the new concept of Failure Mapping by comparing typical functions in an organization which benefits from Failure Mapping to one without. Through examples it shows how individuals in different roles can have their effectiveness enhanced by having access to historical Failure Maps describing past failures. While few of the individual concepts are new, the approach described ties established concepts together in a new and comprehensive manner. This resource describes the process used to create Failure Maps that connect Malfunction Reports (Function - Behavior) with Failure Modes (Component - Condition) to help users clearly understand the most likely final disposition based only on the initial report and the statistics produced by historical experience. It is sure to be found useful by novice Reliability Engineers, Maintenance and Reliability Managers, Engineering Managers, Plant and Corporate Senior Staff and Executives looking for ways to enhance performance, and Consultants who may want to enrich their portfolio by adding this tool. Describes issues that are particularly important to creating Failure Maps that record failure histories in a manner that the records will be useful in the future. Explains how Failure Maps can be used to improve reliability by identifying Failure Mechanisms while at work. Details how Failure Maps can be used to improve reliability by identifying Defects before failures can occur. Describes how Failure Maps can be used to increase the effectiveness of the diagnostic and troubleshooting process as a part of any help desk activity. Explains how to use Failure Mapping as a tool to improve the effectiveness of "triage" as a part of failure response in high volume activities. Includes several forms found useful in recording Failure Maps and creating reports. Provides readers with tools needed to enhance and set up their own Failure Mapping program. Offers both new and more experienced plant and shop personnel with a tool they can use to develop a consistent understanding of Failure Mapping, the roles in a Failure Mapping organization and the steps in implementing a Failure Mapping process.

**Case Studies in Maintenance & Reliability**

**A Wealth of Best Practices** *Industrial Press*

In this book the authors describe 42 on-the-job events or situations - case studies, if you will - taken from their own work experience and from which they gained invaluable insights into a wealth of best practices in maintenance and reliability. In many instances they did not know the underlying academic theories that would have applied, and found solutions often more by intuition and teamwork. The case studies are real stories, told by real people, who were physically and emotionally involved. The events are captured warts and all, and the authors have resisted the temptation to offer a set of recipes for all occasions. Rather, the approach is all about "how we did it" rather than "how you must do it". Stories are a great way to communicate, and that is the medium the authors have adopted, packing their book with common sense practical ideas on how to improve maintenance and reliability performance. Operations and maintenance technicians, supervisors, managers, planners, schedulers, and support engineering teams, as well as designers and project managers will find these stories dynamic illustrations of real-life situations that they will recognize in their own work. Students, meanwhile, will find the true stories in this book a refreshing change from their usual steady diet of books emphasizing theory. FEATURES Provides a logical organization with chapters grouped into six broad headings, enabling readers to choose the order in which they wish to absorb the lessons, which are based on the Shewhart-Deming Continuous Improvement cycle. In addition to the Plan-Schedule-Execute-Analyze elements, the authors have added Leadership and People to complete the suite. Each chapter has broadly similar sections, beginning with a Background t

Site Reliability Engineering

How Google Runs Production Systems "O'Reilly Media, Inc."

The overwhelming majority of a software system’s lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google’s Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE’s day-to-day work: building and operating large distributed computing systems Management—Explore Google's best practices for training, communication, and meetings that your organization can use

Reliability, Maintainability, and Supportability

Best Practices for Systems Engineers John Wiley & Sons

Focuses on the core systems engineering tasks of writing, managing, and tracking requirements for reliability, maintainability, and supportability that are most likely to satisfy customers and lead to success for suppliers This book helps systems engineers lead the development of systems and services whose reliability, maintainability, and supportability meet and exceed the expectations of their customers and promote success and profit for their suppliers. This book is organized into three major parts: reliability, maintainability, and supportability engineering. Within each part, there is material on requirements development, quantitative modelling, statistical analysis, and best practices in each of these areas. Heavy emphasis is placed on correct use of language. The author discusses the use of various sustainability engineering methods and techniques in crafting requirements that are focused on the customers’ needs, unambiguous, easily understood by the requirements’ stakeholders, and verifiable. Part of each major division of the book is devoted to statistical analyses needed to determine when requirements are being met by systems operating in customer environments. To further support systems engineers in writing, analyzing, and interpreting sustainability requirements, this book also Contains “Language Tips” to help systems engineers learn the different languages spoken by specialists and non-specialists in the sustainability disciplines Provides exercises in each chapter, allowing the reader to try out some of the ideas and procedures presented in the chapter Delivers end-of-chapter summaries of the current reliability, maintainability, and supportability engineering best practices for systems engineers Reliability, Maintainability, and Supportability is a reference for systems engineers and graduate students hoping to learn how to effectively determine and develop appropriate requirements so that designers may fulfil the intent of the customer.

10 Rights of Asset Management

The 10 Rights of Asset Management is about doing the right things at a system asset level in order to create greater value from the assets during their lifecycle. However, it's very important to ensure open communication and leadership support in creating the right policies and plans. Each of the 10 Rights are elaborated in ten separate chapters in the book: Specify It Right, Design It Right, Source It Right, Build/Fabricate It Right, Install/Commission It Right, Operate It Right, Maintain It Right, Improve/Modify It Right, Dispose/Decommission It Right, and Manage It Right. By implementing The 10 Rights of Asset Management, you will enable your organization to get more value from its assets and be in compliance with ISO 55000.

Certified Maintenance and Reli Ability Professional Exam Guide Industrial Press

In the fields of maintenance & reliability, there are a number of certifications that "M&R" professionals may take to help further their careers, whether it be in the form of a promotion, a change of job, more money, or simply a title to add to their credentials. The exams for these tests assess the candidates' skills and knowledge in areas such as work management, equipment reliability, leadership and organization, knowledge of the different certifications' bodies of knowledge, manufacturing process reliability, and business management, as well as their ability to adhere to industry

standards (both ANSI and ISO). Until now, there hasn't been a single volume for maintenance and reliability certification candidates to use as a study guide for these exams. The Maintenance and Reliability Certification Exam Guide fills the great need for such a resource by including: specifics about the different tests. how to study for each. information on where to focus review efforts. hundreds of sample exam questions. vital facts about re-certification. practical tips for maintenance and reliability professionals to take back with them to use on the job. Chapters include a list of performance objectives, review questions, as well as lists of supportive reading. Related graphs, tables, charts, and illustrations round out this indispensable work for all maintenance and reliability professionals seeking certification.

The 15 Most Common Obstacles to World-class Reliability

A Roadmap for Managers Industrial Press Inc.

Examines the larger issues (culture, leadership, commitment, consistency) that functionaries cannot overcome without strong senior management involvement. Focuses on the managerial leadership, cultural change, organization-wide commitment, and perseverance required to transform the operational environment from reactive to proactive. Uses illustrations to visually convey Principles and Concepts of Maintenance/Reliability Excellence. Includes appendices that provide generic tools and plans used to drive the essential change. Reliability is dependent upon shared understanding and beliefs. Managers at all levels must understand how their decisions and directions often impact adversely the ability of their organization to achieve and perpetuate Reliability...thereby undermining realization of broad business objectives. This book identifies and explores fifteen cultural obstacles commonly encountered by most organizations in their pursuit of World-Class Reliability. The intent is to provide senior management with a wake-up call. They must address the identified obstacles the people they have charged with pursuit of reliability (middle managers, engineers and functional specialists) can be successful. Otherwise, senior management is its' own worst enemy. It is a must-read for Senior Managers at all levels (Corporate to Plant and within Plant at Departmental levels).

Productivity and Reliability-Based Maintenance Management Purdue University Press

With its easy-to-read writing style, Productivity and Reliability-Based Maintenance Management provides a strong yet practical foundation on Total Productive Maintenance (TPM). This comprehensive practical guide departs from the wait-failure-emergency repair cycle that plagues many industries today. Instead, this text takes a proactive and productive maintenance approach, focusing on how to avoid failure in the first place. By using real-world case studies in every chapter, the author reinforces the importance of sound and proactive maintenance practices. The use of end-of-chapter problems and discussion questions helps to solidify concepts presented. Productivity and Reliability-Based Maintenance Management is a powerful educational tool for students as well as maintenance professionals and managers. This volume was previously published under the same title in 2004 by Pearson Education, and has been reprinted with permission through an arrangement with the author.

The Competitive Edge

Research Priorities for U.S. Manufacturing National Academies Press

To maintain competitiveness in the emerging global economy, U.S. manufacturing must rise to new standards of product quality, responsiveness to customers, and process flexibility. This volume presents a concise and well-organized analysis of new research directions to achieve these goals. Five critical areas receive in-depth analysis of present practices, needed improvement, and research priorities: Advanced engineered materials that offer the prospect of better life-cycle performance and other gains. Equipment reliability and maintenance practices for better returns on capital investment. Rapid product realization techniques to speed delivery to the marketplace. Intelligent manufacturing control for improved reliability and greater precision. Building a workforce with the multidisciplinary skills needed for competitiveness. This sound and accessible analysis will be useful to manufacturing engineers and researchers, business executives, and economic and policy analysts.

Complete Guide to Preventive and Predictive Maintenance Industrial Press Inc.

A culmination of 15 years of research, teaching, and consulting, this book shares the best practices, mistakes, victories, and essential steps for success which the author has gleaned from working with countless organizations. Unlike other books that only focus on the engineering issues (task lists) or management issues (CMMS), this in-depth resource is the first to give true emphasize to the four aspects of success in preventive maintenance systems--engineering, management, economic, and psychological -- thereby enabling readers to have a balanced view and understanding of what is happening in their organizations. Additionally, it blends concrete actionable steps and structures with the theory behind the steps.

Maintenance and Reliability Best Practices

Maintenance Strategy Elsevier

Devising optimal strategy for maintaining industrial plant can be a difficult task of daunting complexity. This book aims to provide the plant engineer with a comprehensive approach for tackling this problem, that is, for deciding maintenance objectives, formulating equipment life plans and plant maintenance schedules, and others.

Benchmarking Best Practices for Maintenance, Reliability and Asset Management, Third Edition

Updated to account for ISO 55000, Benchmarking Best Practices for Maintenance, Reliability and Asset Management, Third Edition, now includes an



overview of this seminal and long-awaited standard and identifies the specific points where ISO 55000 will impact maintenance and reliability. New graphics to enhance the text's main points have been added throughout. As with past editions, the third edition provides a logical, step-by-step methodology that will enable any company to properly benchmark its maintenance function. It presents an overview of the benchmarking process, a detailed form for surveying and "grading" maintenance management, and a database of the results of more than 100 companies that have used this survey. Widely used, Benchmarking Best Practices for Maintenance, Reliability and Asset Management, Third Edition, has proven to be an invaluable planning guide and on-the-job reference for maintenance managers, plant engineers, operations managers, and plant managers.

**Engineering Fundamentals: An Introduction to Engineering, SI Edition** *Cengage Learning*  
Specifically designed as an introduction to the exciting world of engineering, ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING encourages students to become engineers and prepares them with a solid foundation in the fundamental principles and physical laws. The book begins with a discovery of what engineers do as well as an inside look into the various areas of specialization. An explanation on good study habits and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Uptime

**Strategies for Excellence in Maintenance Management, Third Edition** *CRC Press*  
Uptime describes the combination of activities that deliver fewer breakdowns, improved productive capacity, lower costs, and better environmental performance. The bestselling second edition of Uptime has been used as a textbook on maintenance management in several postsecondary institutions and by many companies as the model framework for their maintenance management programs. Following in the tradition of its bestselling predecessors, Uptime: Strategies for Excellence in Maintenance Management, Third Edition explains how to deal with increasingly complex technologies, such as mobile and cloud computing, to support maintenance departments and set the stage for compliance with international standards for asset management. This updated edition reflects a far broader and deeper wealth of experience and knowledge. In addition, it restructures its previous model of excellence slightly to align what must be done more closely with how to do it. The book provides a strategy for developing and executing improvement plans that work well with the new values prevalent in today's workforce. It also explains how you can use seemingly competing improvement tools to complement and enhance each other. This edition also highlights action you can take to compensate for the gradual loss of skills in the current workforce as "baby boomers" retire.

Maintenance Storerooms and MRO - Made Simple

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.

**Maintenance Planning and Scheduling Handbook, 4th Edition** *McGraw Hill Professional*  
Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. The industry-standard resource for maintenance planning and scheduling—thoroughly revised for the latest advances Written by a Certified Maintenance and Reliability Professional (CMRP) with more than three decades of experience, this resource provides proven planning and scheduling strategies that will take any maintenance organization to the next level of performance. The book resolves common industry frustration with planning and reduces the complexity of scheduling in addition to dealing with reactive maintenance. You will find coverage of estimating labor hours, setting the level of plan detail, creating practical weekly and daily schedules, kitting parts, and more, all designed to increase your workforce without hiring. Much of the text applies the timeless management principles of Dr. W. Edwards Deming and Dr. Peter F. Drucker. You will learn how you can do more proactive work when your hands are full of reactive work. Maintenance Planning and Scheduling Handbook, Fourth Edition, features more new case studies showing real world successes, a new chapter on getting better storeroom support, major revisions that describe the best KPIs for planning, major additions to the issue of “selling” planning to gain support, revisions to make work order codes more useful, a new appendix on numerically auditing planning success, and a new appendix devoted entirely to selecting a great maintenance planner. Maintenance Planning and Scheduling Handbook, Fourth Edition covers: •The business case for the benefit of planning •Planning principles •Scheduling principles •Handling reactive maintenance •Planning a work order •Creating a weekly schedule•Daily scheduling and supervision •Parts and planners•The computer CMMS in maintenance•How planning works with PM, PdM, and projects •Controlling planning: the best KPIs KPIs for planning and overall maintenance •Shutdown, turnaround, overhaul, and outage management •Selling, organizing, analyzing, and auditing planning

Maintenance, Replacement, and Reliability

**Theory and Applications** *CRC Press*  
Since the publication of the second edition in 2013, there has been an increasing interest in asset management globally, as evidenced by a series of international standards on asset management systems, to achieve excellence in asset management. This cannot be achieved without high-quality data and the tools for data interpretation. The importance of such requirements is widely recognized by industry. The third edition of this textbook focuses on tools for physical asset management decisions that are data driven. It also uses a theoretical foundation to the tools (mathematical models) that can be used to optimize a variety of key maintenance/replacement/reliability decisions. Problem sets with answers are provided at the end of each chapter. Also available is an extensive set of PowerPoint slides and a solutions manual upon request with qualified textbook adoptions. This new edition can be used in undergraduate or post-graduate courses on physical asset management.

The Productive Leadership(tm) System

**Maximizing Organizational Reliability** *Industrial Press*  
Typical leadership training never seems to 'move the needle' in terms of creating more effective leaders. That's because the system that supports leadership hasn't changed. To get true improvement in leadership, organizations need to focus on accountability. There must be an asset management system that defines and assigns accountability. Then individual leaders can learn and apply productive leadership. The author has coined and trademarked the Productive Leadership(tm) System (PLS) which includes: \*A Productive Leadership Policy\*The Organizational Reliability Model(tm) (ORM) \*The Productive Leadership Model(tm) (PLM)\*A Productive Leadership Development Program The ORM overtly defines and assigns accountability across each leadership level. The PLM identifies the leadership roles, attributes, skills, sources of power and other aspects that productive leaders must master. The development program creates a leadership pipeline for professional development of current leaders and prospective leaders, and on-boarding the right people for leadership positions. The author includes a chapter on the human brain to show that leaders and followers are capable of learning throughout their lives, and the science behind creating habits and cultures. The book has several tools and exercises to help reinforce important concepts. Appendices include details on the Team Effectiveness and Motivation Survey (used in the 2015 Alidade MER/Plant Services Magazine Leadership Survey), an ISO 55000 overview and the Guidance and Execution Model(tm), an example for developing processes and procedures. Features Recommendations for a full Productive Leadership Development Program and training, including: Characteristics of individual leaders: The desire to be responsible and having a personal mission, vision, and values that align with the leadership position. Leadership roles: Expert/technician, manager/administrator, coach, systems thinker, and visionary. Leadership attributes: Consistent, attentive, respectful, motivational, and assertive. Leadership skills: Time management, communication, empowerment, giving and receiving feedback, and conflict management.

Planning and Scheduling Made Simple - 3rd Edition

**Managing Factory Maintenance** *Industrial Press Inc.*  
Tap into Joel Levitt's vast array of experience and learn how to improve almost any aspect of your maintenance organization (including your own abilities)! This new edition of a classic first educates readers about the globalization of production and the changing of the guard of maintenance leadership, and then gives them real usable ideas to aid in these areas. Completely reorganized so that material is presented within the context of major sections, the second edition tells the story of maintenance management in factory settings. It provides coverage of potential problems and new opportunities, what bosses really want, specifics for improvement of maintenance and production, World Class Maintenance Management revisited and revised, quality improvement, complete coverage of current maintenance practices, processes, process aids, interfaces and strategies, as well as personal and personnel development strategies. Contains a specialized glossary so users can more easily understand the specialized language of factory maintenance. Provides specific "how-to" tips and concrete techniques and examples for continuous improvement. Updates the 20 steps to world class maintenance to include the 6 areas of focus for world class maintenance. Includes a completely updated maintenance evaluation questionnaire that reflects new techniques and technologies. Breaks down and explains the three-team approach to maintenance work. Offers new sections on: managing shutdowns, craft training, and communications. Contains major revisions to the RCM discussion and includes a new discussion about PMO.

The Maintenance Management Framework

**Models and Methods for Complex Systems Maintenance** *Springer Science & Business Media*  
“The Maintenance Management Framework” describes and reviews the concept, process and framework of modern maintenance management of complex systems; concentrating specifically on modern modelling tools (deterministic and empirical) for maintenance planning and scheduling. It will be bought by engineers and professionals involved in maintenance management, maintenance engineering, operations management, quality, etc. as well as graduate students and researchers in this field.

**Maintenance Engineering Handbook** *McGraw Hill Professional*  
Stay Up to Date on the Latest Issues in Maintenance Engineering The most comprehensive resource of its kind, Maintenance Engineering Handbook has long been a staple for engineers, managers, and technicians seeking current advice on everything from tools and techniques to planning and

scheduling. This brand-new edition brings you up to date on the most pertinent aspects of identifying and repairing faulty equipment; such dated subjects as sanitation and housekeeping have been removed. Maintenance Engineering Handbook has been advising plant and facility professionals for more than 50 years. Whether you're new to the profession or a practiced veteran, this updated edition is an absolute necessity. New and updated sections include: Belt Drives, provided by the Gates Corporation Repair and Maintenance Cost Estimation Ventilation Fans and Exhaust Systems 10 New Chapters on Maintenance of Mechanical Equipment Inside: • Organization and Management of the Maintenance Function • Maintenance Practices • Engineering and Analysis Tools • Maintenance of Facilities and Equipment • Maintenance of Mechanical Equipment • Maintenance of Electrical Equipment • Instrumentation and Reliability Tools • Lubrication • Maintenance Welding • Chemical Corrosion Control and Cleaning

**The Coding Manual for Qualitative Researchers** *SAGE*

The Second Edition of Johnny Saldaña's international bestseller provides an in-depth guide to the multiple approaches available for coding qualitative data. Fully up to date, it includes new chapters, more coding techniques and an additional glossary. Clear, practical and authoritative, the book: - describes how coding initiates qualitative data analysis -demonstrates the writing of analytic memos -discusses available analytic software -suggests how best to use The Coding Manual for Qualitative Researchers for particular studies. In total, 32 coding methods are profiled that can be applied to a range of research genres from grounded theory to phenomenology to narrative inquiry. For each approach, Saldaña discusses the method's origins, a description of the method, practical applications, and a clearly illustrated example with analytic follow-up. A unique and invaluable reference for students, teachers, and practitioners of qualitative inquiry, this book is essential reading across the social sciences.

**Making Common Sense Common Practice**

**Models for Manufacturing Excellence** *Butterworth-Heinemann*

Presenting the best practices of the best manufacturing companies in the world, this book presents proven models for achieving world-class performance. Using a case study of a fictional company called Beta International, Moore illustrates how to increase uptime, lower costs, increase market share, maximize asset utilization, apply benchmarks and best practices, and improve many other aspects that ultimately raise your company's performance to the level of world-class. 'Making Common Sense Common Practice' takes a good, hard look at plant design, procurement, parts management, installation and maintenance, training, and implementing a computerized maintenance management system. In discussing the successes and failures of the world's premier manufacturers, Moore outlines a stable path of growth for almost any manufacturing company. In today's tough competitive markets, 'Making Common Sense Common Practice' greatly enhances your company's chance to succeed - and profit. \* Third edition features updating plus new sections on innovation, change management, and leadership \* Presents proven models for achieving world-class performance based on real-life case histories \* Highly readable, concrete style brings the key points to life through a case study of a fictitious organization, Beta International, which runs throughout the book, based on real case histories

**Uptime Elements Dictionary**

**For Reliability Leaders and Asset Managers**

The Uptime Elements Dictionary contains the latest definitions of reliability and asset management terms, including acronyms. The purpose of this book is to help standardize definitions and to serve as an excellent reference point for all certifications. This dictionary is a perfect tool for readers seeking something easier to use and lighter to carry, all while being laser focused in topic.The material included in this dictionary is the result of feedback from the reliability and asset management community, and reflects the updated Uptime Elements. By creating clarity for the language, words and concepts used in reliability, we align stakeholders, as well as engage and empower the entire organization to join the reliability journey.