

Chapter 6 Predictive Maintenance Technologies

6.1 Introduction

Predictive maintenance attempts to detect the onset of a degradation mechanism with the goal of correcting that degradation prior to significant deterioration in the component or equipment. The diagnostic capabilities of predictive maintenance technologies have increased in recent years with advances made in sensor technologies. These advances, breakthroughs in component sensitivities, size reductions, and most importantly, cost, have opened up an entirely new area of diagnostics to the O&M practitioner.

As with the introduction of any new technology, proper application and **TRAINING** is of critical importance. This need is particularly true in the field of predictive maintenance technology that has become increasingly sophisticated and technology-driven. Most industry experts would agree (as well as most reputable equipment vendors) that this equipment should not be purchased for in-house use if there is not a serious commitment to proper implementation, operator training, and equipment monitoring and repair. If such a commitment cannot be made, a site is well advised to seek other methods of program implementation—a preferable option may be to contract for these services with an outside vendor and rely on their equipment and expertise.

Table 6.1.1 below highlights typical applications for some of the more common predictive maintenance technologies. Of course, proper application begins with system knowledge and predictive technology capability – before any of these technologies are applied to live systems.

Table 6.1.1. Common predictive technology applications (NASA 2000)

Technologies	Application	Pumps	Electric Motors	Boiler/Generator	Compressors	Heavy Equipment/Cranes	Crane Systems	Valves	Heat Exchangers	Electrical Systems	Transformers	Tanks, Piping
Vibration Monitoring/Analysis		X	X	X		X						
Lubricant, Fuel Analysis		X	X	X		X					X	
Wear Particle Analysis		X	X	X		X						
Bearing, Temperature/Analysis		X	X	X		X						
Performance Monitoring		X	X	X	X				X		X	
Ultrasonic Noise Detection		X	X	X	X			X	X		X	
Ultrasonic Flow		X			X			X	X			
Infrared Thermography		X	X	X	X	X	X	X	X	X	X	
Non-destructive Testing (Thickness)					X				X			X
Visual Inspection		X	X	X	X	X	X	X	X	X	X	X
Insulation Resistance			X	X			X			X	X	
Motor Current Signature Analysis			X									
Motor Circuit Analysis			X				X			X		
Polarization Index			X	X						X		
Electrical Monitoring										X	X	

Chapter 6 Predictive Maintenance Technologies

Anup Bolshetty



Chapter 6 Predictive Maintenance Technologies:

Emerging Technologies in Digital Manufacturing and Smart Factories Hassan, Ahdi, Dutta, Pushan Kumar, Gupta, Subir, Mattar, Ebrahim, Singh, Satya, 2023-12-29 Rapid digital transformation is forcing the manufacturing industry to drastically alter its current trajectory for future success. The remarkable convergence of digitalization and manufacturing is reshaping industries ushering in an era known as Industry 5.0. This revolutionary transition has given birth to digital manufacturing and smart factories heralding a new dawn in the way we produce goods. The amalgamation of artificial intelligence, AI, robotics, the internet of things, IoT, augmented reality, AR, virtual reality, VR, big data analytics, cloud computing, and additive manufacturing stands poised to unlock unprecedented avenues in the realm of production. Practitioners, researchers, dreamers, and pioneers all are beckoned to explore the uncharted territories of digital innovation in manufacturing. **Emerging Technologies in Digital Manufacturing and Smart Factories** spans domains from mechanical and electrical engineering to computer science, from industrial economics to business strategy, and this book addresses this diverse audience. The book embarks on a comprehensive voyage unveiling the latest evolutions and nascent trends within digital manufacturing and smart factories. From inception to execution, from design optimization to predictive maintenance, every phase of the manufacturing lifecycle is scrutinized through the lens of cutting-edge technologies. Rather than relying exclusively on the theoretical realm, this book also ventures into the crucible of real-world application, offering practical insights drawn from varied industries including automotive, aerospace, and pharmaceuticals. **AI-Driven Smart Industrial Technologies** Habib, Maki K., 2025-06-26 Industries are being revolutionized through smart connectivity connecting machines and computers to enhance automation, safety, and efficiency. Through the adoption of smart industrial technologies, industries are progressing towards greater sustainability. The trends in artificial intelligence, AI-driven technologies, point to global advances in quality and productivity. However, challenges still exist in strengthening the collaboration between humans and machines for Industry 5.0, including enhancing human augmentation while still prioritizing employee well-being. **AI-Driven Smart Industrial Technologies** examines the intersection of advanced technologies and sustainable practices in modern industries in different domains. It provides a distinct perspective on integrating AI, robotics, mechatronics, and Industries 4.0 and 5.0 principles, highlighting their collective impact on creating greener, more efficient, and smarter industrial processes. Covering topics such as 3D printing, human-machine collaboration, and cyber-physical systems, this book is an excellent resource for manufacturers, automation professionals, policymakers, technologists, engineers, computer scientists, environmental scientists, professionals, researchers, scholars, academicians, and more. Maintenance, Replacement, and Reliability Andrew K. S. Jardine, Albert H. C. Tsang, 2021-09-15 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

Transforming the Service Sector With New Technology Rana, Varinder Singh,Bathla, Gaurav,Raina, Ashish,Chhabra, Divoy,2025-05-07 Technology can impact the service sector in a variety of ways It can be used to transform a number of service related businesses including hospitality tourism banking healthcare and others Businesses navigating the rapidly changing landscape of services and technology can benefit from it by using emerging technology to create new services or improve existing ones With the rapid rise in technology the regulatory landscape is changing requiring additional changes to ensure responsible innovation and protect consumers interests Transforming the Service Sector with New Technology strives to stimulate innovation aid in strategic decision making and benefit service industries as a whole It provides valuable information about how technology is impacting and transforming the services sector and insights in responsibly regulating it Covering topics such as customer engagement recovery strategies and technology driven product placement this book is an excellent resource for industry decision makers Industrialists hospitality professionals entrepreneurs policymakers scholars academicians professionals and more

Real-World Applications and Implementations of IoT Aritra Acharyya,Prasenjit Dey,Sujit Biswas,2025-02-11 This book explores state of the art internet of things IoT solutions for energy conservation security agricultural advancements mining security healthcare and environmental protection This book delves deep into the technology offering a comprehensive analysis detailed descriptions and in depth discussions of recently developed IoT applications With a strong focus on the cutting edge research at a global scale the book combines IoT with artificial intelligence AI shedding light on emerging possibilities and advancements Designed to cater to a broad audience from those with a foundational understanding of science to seasoned engineering and technology experts this book can serve as an essential resource for engineering students and science master s programs Researchers seeking to stay at the forefront of IoT and AI will also find it invaluable

Technology and Safety of Marine Systems J. Wang,2003-07-22 Traditionally society has regulated hazardous industries by detailed references to engineering codes standards and hardware requirements These days a risk based approach is adopted Risk analysis involves identifying hazards categorizing the risks and providing the necessary decision support to determine the necessary arrangements and measures to reach a safe yet economical operating level When adopting such an approach the abundance of techniques available to express risk levels can often prove confusing and inadequate This highly practical guide to safety and risk analysis in Marine Systems not only adds to the current techniques available but more importantly

identifies instances where traditional techniques fall short. Uncertainties that manifest within risk analysis are highlighted and alternative solutions presented. In addition to risk analysis techniques, this book addresses influencing elements including reliability, Maintenance Decision making, and Human error. The highly practical approach of this title ensures it is accessible to the widest possible audience. **Beyond the Hype: Realizing the True Potential of AI** Anup Bolshetty, 2023-04-19

Discover the true potential of AI beyond the hype with this insightful and thought provoking book. From healthcare to finance, transportation to manufacturing, explore the many ways in which AI is transforming industries and society, as well as the ethical challenges that must be addressed. Written in an accessible and engaging style, this book is essential reading for anyone interested in the future of technology and its impact on our world. **Facility Manager's Maintenance Handbook**

2E (PB) Bernard T. Lewis, Richard Payant, 2007-06-01. An Updated Guide to Establishing Cutting Edge Operations and Maintenance Procedures for Today's Complex Facilities. An essential on the job resource. Facility Manager's Maintenance Handbook presents step by step coverage of the planning, design, and execution of operations and maintenance procedures for structures, equipment, and systems in any type of facility. This career building reference provides the tools needed to streamline facility management processes, reduce operational costs, and ensure the effective utilization, maintenance, repair, and renovation of existing physical assets. Now with 40% new information, this Second Edition includes brand new chapters on emergency response procedures, maintenance operations, benchmarking, capital and operational budgets management, boiler and steam plant operations, and other vital topics. The only book of its kind to cover both operations and maintenance, the updated Facility Manager's Maintenance Handbook features updated information on mechanical equipment and systems, maintenance, the latest fire protection procedures, a comprehensive account of building codes, guidance on hazardous materials handling, excellent preparation for the IFMA Certified Facility Manager (CFM) qualification. Inside This State of the Art Facility Management Resource: Part 1 Organizing for Maintenance Operations, Part 2 Facility Operations and Maintenance Operations Plans, Maintenance Plans, Part 3 Equipment and Systems Operations, Maintenance o, Part 4 Facilities Emergency Preparedness o, Part 5 Capital Investment. **Engineering Innovation: How Technology Is Transforming**

Traditional Design Charles Nehme, 2025-11-06. The world of engineering is at a critical inflection point. For decades, our foundational principles from mechanics and thermodynamics to material science have remained constant, but the tools we use to apply them are undergoing a dramatic and accelerating transformation. We are moving beyond simple Computer Aided Design (CAD) into an era defined by intelligent, data driven systems. This book, *Engineering Innovation: How Technology Is Transforming Traditional Design*, is your essential guide to navigating this new landscape. It is born from the conviction that innovation is not an optional add-on, but a core competency for the modern professional. We explore how emerging technologies like the Internet of Things (IoT), drone based reality capture, Artificial Intelligence (AI), and additive manufacturing (3D printing) are not just enhancing workflows, but fundamentally redefining what is possible in design, construction, and asset

management From mastering the digital twin to implementing generative design this text provides a practical roadmap for integrating cutting edge technology into traditional engineering disciplines Our focus is on the digital transformation of engineering workflows a necessary shift that promises greater efficiency enhanced sustainability and safer higher performing built environments The future is being engineered now and this book ensures you are leading the way

Tool and Manufacturing Engineers Handbook: Material and Part Handling in Manufacturing Philip Mitchel,1983 Get the expert advise you need to shrink handling costs reduce downtime and improve efficiency in plant operations You ll use this comprehensive handbook during post design process selection and planning for establishing quality controls tests and measurements to streamline production and for managerial decision making on capital investments and new automated systems

Handbook of Research on Digital Transformation, Industry Use Cases, and the Impact of Disruptive Technologies Wynn, Martin George,2021-10-15 Companies from various sectors of the economy are confronted with the new phenomenon of digital transformation and are faced with the challenge of formulating and implementing a company wide strategy to incorporate what are often viewed as disruptive technologies These technologies are sometimes associated with significant and extremely rapid change in some cases with even the replacement of established business models Many of these technologies have been deployed in unison by leading edge companies acting as the catalyst for significant process change and people skills enhancement The Handbook of Research on Digital Transformation Industry Use Cases and the Impact of Disruptive Technologies examines the phenomenon of digital transformation and the impact of disruptive technologies through the lens of industry case studies where different combinations of these new technologies have been deployed and incorporated into enterprise IT and business strategies Covering topics including chatbot implementation multinational companies cloud computing internet of things artificial intelligence big data and analytics immersive technologies and social media this book is essential for senior management IT managers technologists computer scientists cybersecurity analysts academicians researchers IT consultancies professors and students

Reliability Centered Maintenance (RCM) Neil B. Bloom,2005-12-22 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

Crist Power Plant Case Study Chetan S. Sankar,P. K.

Raju,2000 Della Steam Plant Case Study P. K. Raju,Chetan S. Sankar,2000 Drivepower Technology Atlas ,1999 **E Source Technology Atlas Series: Drivepower** ,1996 **The Shock and Vibration Digest** ,1996 **Maintenance Engineering Handbook** Lindley R. Higgins,R. Keith Mobley,Ricky Smith,2002 MAINTENANCE ENGINEERING HANDBOOK Sixth Edition The latest science technology and management solutions for facility maintenance issues The one reference you can bank on for current answers to virtually any maintenance question Lindley R Higgins and R Keith Mobley s Maintenance Engineering Handbook provides the best of today s strategies and technologies from the world s leading experts One stop source of answers on all maintenance engineering functions from managing planning and budgeting to solving environmental problems New coverage of the latest computer applications maintenance technologies and tools Strategies equipment techniques and tips for facilities from industrial plants to residential complexes institutions schools hospitals and office buildings NEW IN THIS EDITION Technology updates Improvements in prevention and prediction Equipment testing and monitoring tools The latest computer programs Advances in maintenance economics Guidance on insurance administration New maintenance techniques for centrifugal air compressors centrifugal pumps and other equipment Maintenance Engineering s Most Current Comprehensive and Complete Reference A McGraw Hill Classic 55 SPECIALISTS Buildings and grounds Computer applications Corrosion and cleaning Costs and controls Electrical equipment Estimates and budgets Instrumentation and monitoring tools Inventory Lubrication Measuring servicing testing Mechanical equipment Organization and management Parts and components Personnel and policies Practices and prevention Sanitation and housekeeping Specialized equipment Welding Technology for the '90s M. K. Au-Yang,1993 **Maintenance Planning and Scheduling Handbook, 4th Edition** () (Doc) D. D. D. Palmer,2019-09-13 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

The Top Books of the Year Chapter 6 Predictive Maintenance Technologies The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. Chapter 6 Predictive Maintenance Technologies : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Chapter 6 Predictive Maintenance Technologies : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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