

Equipment Condition Assessment And Its Importance In

Any structural system in service is subject to age-related deterioration, leading to potential concerns regarding maintenance, health & safety, environmental and economic implications. Condition assessment of aged structures is an invaluable, single source of information on structural assessment techniques for marine and land-based structures such as ships, offshore installations, industrial plant and buildings. Topics covered include: - Current practices and standards for structural condition assessment - Fundamental mechanisms and advanced mathematical methods for predicting structural deterioration - Residual strength assessment of deteriorated structures - Inspection and maintenance of aged structures - Reliability and risk assessment of aged structures Professionals from a broad range of disciplines will be able to gain a better understanding of current practices and standards for structural condition assessment or health monitoring, and what future trends might be. Single source of information on structural assessment techniques for marine and land-based structures Examines the residual strength and reliability of aged structures Assesses current practices covering inspection, health monitoring and maintenance

Selected papers from the International Conference on New Computational Social Science, focusing on the following five aspects: Big data acquisition and analysis, Integration of qualitative research and quantitative research, Sociological Internet experiment research, Application of ABM simulation method in Sociology Research, Research and development of new social computing tools. With the rapid development of information technology, especially sweeping progress in the Internet of things, cloud computing, social networks, social media and big data, social computing, as a data-intensive science, is an emerging field that leverages the capacity to collect and analyze data with an unprecedented breadth, depth and scale. It represents a new computing paradigm and an interdisciplinary field of research and application. A broad comprehension of major topics involved in social computing is important for both scholars and practitioners. This proceedings presents and discusses key concepts and analyzes the state-of-the-art of the field. The conference not only gave insights on social computing, but also affords conduit for future research in the field. Social computing has two distinct trends: One is on the social science issues, such as computational social science, computational sociology, social network analysis, etc; The other is on the use of computational techniques. Finally some new challenges ahead are summarized, including interdisciplinary cooperation and training, big data sharing for scientific data mashups, and privacy protect.

Root Cause Failure Analysis Provides the knowledge and failure analysis skills necessary for preventing and investigating process equipment failures Process equipment and piping systems are essential for plant availability and performance. Regularly exposed to hazardous service conditions and damage mechanisms, these critical plant assets can result in major failures if not effectively monitored and assessed—potentially causing serious injuries and significant business losses. When used proactively, Root Cause Failure Analysis (RCFA) helps reliability engineers inspect the process equipment and piping system before any abnormal conditions occur. RCFA is equally important after a failure happens: it determines the impact of a failure, helps control the resultant damage, and identifies the steps for preventing future problems. Root Cause Failure Analysis: A Guide to Improve Plant Reliability offers readers clear understanding of degradation mechanisms of process equipment and the concepts needed to perform industrial RCFA investigations. This comprehensive resource describes the methodology of RCFA and provides multiple techniques and industry practices for identifying, predicting, and evaluating equipment failures. Divided into two parts, the text first introduces Root Cause Analysis, explains the failure analysis process, and discusses the management of both human and latent error. The second part focuses on failure analysis of various components such as bolted joints, mechanical seals, steam traps, gearboxes, bearings, couplings, pumps, and compressors. This authoritative volume: Illustrates how failures are associated with part integrity, a complete system, or the execution of an engineering process Describes how proper design, operation, and maintenance of the equipment help to enhance their reliability Covers analysis techniques and industry practices including 5-Why RCFA, fault tree analysis, Pareto charts, and Ishikawa diagrams Features a detailed case study of process plant machinery and a chapter on proactive measures for avoiding failures Bridging the gap between engineering education and practical application, Root Cause Failure Analysis: A Guide to Improve Plant Reliability is an important reference and guide for industrial professionals, including process plant engineers, planning managers, operation and maintenance engineers, process designers, chemical engineers, and instrument engineers. It is also a valuable text for researchers, instructors, and students in relevant areas of engineering and science.

The U.S. Customs and Border Protection (CBP) FY 2009 Performance and Accountability Report (PAR) is a comprehensive report that combines CBP's Annual Performance Report with its audited financial statements, assurances on internal control, accountability reporting and agency assessments. CBP's PAR provides financial and performance information that enables Congress and the public to assess the performance of the agency as it relates to the CBP mission. CBP is America's frontline border agency; it guards our boundaries. The CBP PAR discusses the agency's strategic goals and objectives and provides a comparison of agency performance targets to actual performance results. Illustrations.

How to use industry standards to create complete, consistent, and accurate equipment inventories The National Institute of Science and Technology estimates that the loss of information between the construction of buildings and their operation and maintenance costs facility owners \$15.8 billion every year. This phenomenal loss is caused by inconsistent standards for capturing information about facilities and their equipment. In Equipment Inventories for Owners and Facility Managers, Robert Keady draws on his twenty+ years of experience in facility management and his intimate knowledge of CSI classification systems and standards to tackle this problem head-on. Using standards already in use in the AEC industry, he provides the road map for capturing everything owners and facility managers need to know to operate and maintain any facility. This comprehensive, step-by-step guide: Explains the different types of equipment inventories and why they are important Identifies and describes the types of information that should be captured in an equipment inventory Describes and compares the different industry standards (CSI OmniClass™ and UniFormat™; COBie; and SPIe) that can be used for equipment inventories Provides best practices for identifying and tagging equipment Walks through the equipment inventory process with real-world examples and best practices Provides the tools for conducting the equipment inventory—tables of all the possible information and data that need to be collected, and fifty maps of workflows that can be used to capture that data immediately

Engineering technology development and implementation play an important role in making the industry more sustainable in an increasingly competitive world. This book covers significant recent developments in both fundamental and applied research in the

engineering field. Domains of application include, but are not limited to, Intelligent Control Systems and Optimization, Signal Processing, Sensors, Systems Modeling and Control, Robotics and Automation, Industrial and Electric Engineering, Production and Management. This book is an excellent reference work to get up to date with the latest research and developments in the fields of Automation, Mechatronics and Industrial Engineering. It aims to provide a platform for researchers and professionals in all relevant fields to gain new ideas and establish great achievements in scientific development.

This book constitutes the thoroughly refereed proceedings of the 3rd International Conference on IoT as a service, IoTaaS 2017, held in Taichung, Taiwan, in September 2017. The 46 full papers were carefully selected from 65 submissions. The papers deal with the "Everything as a Service" deployment paradigm which enables the easy adoption of IoT based services and applications by end-users, and forces providers of smart objects and middleware platforms to architect their solutions accordingly. The three special sessions organized were Wearable Technology and Applications (WTAA), Building Smart Machine Applications (BSMA), and Security and Privacy in Internet of Things, Services and People (SP-IoTSP). The WTAA special session aimed to address the challenges of maintaining high efficiency of WTAA in terms of high recognition rate, energy consumption, computational costs and so forth. The BSMA special session aimed to explore how to construct smart machines architecture for the industry under the background of IoT and big data. The SP-IoTSP special session aimed to investigate recent research and future directions for IoTSP security and privacy.

Process machines are critical to the profitability of processes. Safe, efficient and reliable machines are required to maintain dependable manufacturing processes that can create saleable, on-spec product on time, and at the desired production rate. As the wards of process machinery, we wish to keep our equipment in serviceable condition. One of the most challenging aspects of a machinery professional or operator's job is deciding whether an operating machine should be shut down due to a perceived problem or be allowed to keep operating. If he or she wrongly recommends a repair be conducted, the remaining useful machine life is wasted, but if he or she is right, they can save the organization from severe consequences, such as product releases, fires, costly secondary machine damage, etc. This economic balancing act is at the heart of all machinery assessments.

Troubleshooting is part science and part art. Simple troubleshooting tables or decision trees are rarely effective in solving complex, real-world machine problems. For this reason, the authors want to offer a novel way to attack machinery issues that can adversely affect the reliability and efficiency of your plant processes. The methodology presented in this book is not a rigid "cook book" approach but rather a flexible and dynamic process aimed at exploring process plant machines holistically, in order uncover the true nature the problem at hand.

The National Institutes of Health (NIH) is the primary agency of the United States government responsible for biomedical and public health research. Founded in the late 1870s, NIH has produced extraordinary advances in the treatment of common and rare diseases and leads the world in biomedical research. It is a critical national resource that plays an important role in supporting national security. The 310-acre Bethesda campus supports some 20,000 employees and contractors, and it contains more than 12 million square feet of facilities divided amongst nearly 100 buildings, including the largest dedicated research hospital in the world. The Bethesda campus supports some of the most sophisticated and groundbreaking biomedical research in the world. However, while some new state-of-the-art buildings have been constructed in recent years, essential maintenance for many facilities and the campus overall has been consistently deferred for many years. The deteriorating condition of NIH's built environment is now putting its ability to fulfill its mission at substantial risk. *Managing the NIH Bethesda Campus's Capital Assets for Success in a Highly Competitive Global Biomedical Research Environment* identifies the facilities in greatest need of repair on the Bethesda campus and evaluates cost estimates to determine what investment is needed for the NIH to successfully accomplish its mission going forward.

The academic biomedical research community is a hub of employment, economic productivity, and scientific progress. Academic research institutions are drivers of economic development in their local and state economies and, by extension, the national economy. Beyond the economic input that the academic biomedical research community both receives and provides, it generates knowledge that in turn affects society in myriad ways. The United States has experienced and continues to face the threat of disasters, and, like all entities, the academic biomedical research community can be affected. Recent disasters, from hurricanes to cyber-attacks, and their consequences have shown that the investments of the federal government and of the many other entities that sponsor academic research are not uniformly secure. First and foremost, events that damage biomedical laboratories and the institutions that house them can have impacts on the safety and well-being of humans and research animals. Furthermore, disasters can affect career trajectories, scientific progress, and financial stability at the individual and institutional levels.

Strengthening the Disaster Resilience of the Academic Biomedical Research Community offers recommendations and guidance to enhance the disaster resilience of the academic biomedical research community, with a special focus on the potential actions researchers, academic research institutions, and research sponsors can take to mitigate the impact of future disasters.

This book comprises refereed papers from the 10th World Congress on Engineering Asset Management (WCEAM 2015), held in Tampere, Finland in September 2015. These proceedings include a compilation of state-of-the-art papers covering a comprehensive range of subjects equally relevant to business managers and engineering professionals alike. With a focus on various aspects of engineering asset management ranging from strategic level issues to detail-level machine health issues, these papers address both industry and public sector concerns and issues, as well as advanced academic research. *Proceedings of the WCEAM 2015* is an excellent reference and resource for asset management practitioners, researchers and academics, as well as undergraduate and postgraduate students at tertiary institutions or in the industry.

The annual series *Global Conferences on Sustainable Manufacturing (GCSM)* sponsored by the International Academy for Production Engineering (CIRP) is committed to excellence in the creation of sustainable products and processes that conserve energy and natural resources, have minimal negative impacts upon the natural environment and society, and adhere to the core principle of sustainability by considering the needs of the present without compromising the ability of future generations to meet their own needs. To promote this noble goal, there is a great need for increased awareness in education and training, including the dissemination of new findings on principles and practices of sustainability applied to manufacturing. The series *Global Conferences on Sustainable Manufacturing* offers international colleagues the opportunity to network, expand their knowledge, and improve practice globally.

Learn How to Implement Safety Codes and Regulations Effectively A number of electrical fatalities and injuries that occur each year can be overcome by a thorough understanding of electrical concepts. Yet due to the complexity of regulatory requirements,

many safety professionals may not be fully equipped to handle the task. *Electrical Safety: Systems, Sustainability, and Stewardship* addresses the problem by simplifying the knowledge acquisition process, and arming safety professionals with the tools needed to successfully meet safety and efficacy goals. From power generation facility to electrical device, this text combines knowledge of industry standards, regulations, and real-world experience to provide a detailed explanation of electrical power generation, transmittal, and use. Explains the Concepts behind Electric Code The book introduces the basic sustainability and stewardship concepts inherent to reliability centered maintenance (RCM). It explains how these concepts apply to the components of an electrical system (the concepts can be used when auditing for electrical safety, training on electrical safety, and overseeing an upgrade or extension of a building's electrical system). In addition, it addresses general electrical safety, electromagnetic field shields, ohm/resistance study criteria, arc flash hazard analysis, and hazardous energy control. The authors outline OSHA requirements and the reasons for those requirements, and explain the implementation exigencies. This book: Describes power generation, transmittal, and usage Contains regulatory summaries from the OSHA electrical safety standards Presents the various types of electrical studies including arc flash, electromagnetic field, and ohm resistance investigations Discusses earthing grounds and overcurrent devices as overall components of electrical control and safety Offers an up-to-date discussions of arc flash criteria and evaluation needs that are linked to general electrical safety and grounding requirements Considers electromagnetic field physics, measurement, and control alternatives *Electrical Safety: Systems, Sustainability, and Stewardship* provides a step-by-step dialogue of the OSHA requirements and more importantly the reasons for those requirements. Describing electrical use within industrial settings, and presenting a ground approach to understanding how electrical power is used, this book lays down the ground work for making important decisions.

Get longer, safer system operating life for every facility maintenance dollar! How do you efficiently manage facility infrastructure? You turn to this hands-on, answer-packed, time- and money-saving guide designed for every facility manager who has to do more with less. It shows you how to conduct seamless facility condition inspections that provide an overall snapshot of the current condition of your facility, generating enormous amounts of priceless information that will help you reduce or eliminate downtime and keep your facility humming. This comprehensive, portable toolkit packs everything you need to: * Continually assess the condition status of every aspect of a building: all of its systems and equipment, components and subcomponents *Identify deficiencies before they become major problems * Get better performance from every system

The volume includes a set of selected papers extended and revised from the I2009 Pacific-Asia Conference on Knowledge Engineering and Software Engineering (KESE 2009) was held on December 19~ 20, 2009, Shenzhen, China. Volume 1 is to provide a forum for researchers, educators, engineers, and government officials involved in the general areas of Computer and Software Engineering to disseminate their latest research results and exchange views on the future research directions of these fields. 140 high-quality papers are included in the volume. Each paper has been peer-reviewed by at least 2 program committee members and selected by the volume editor Prof. Yanwen Wu. On behalf of this volume, we would like to express our sincere appreciation to all of authors and referees for their efforts reviewing the papers. Hoping you can find lots of profound research ideas and results on the related fields of Computer and Software Engineering.

The book offers a broad overview of asset management processes for different utilities, with a special emphasis on energy and water. It provides readers with important practical considerations concerning the development of new competitive structures and procedures for guaranteeing a sufficient supply of energy and water in a regulated environment, using clearly defined technical and economic cornerstones. On the one hand asset owners expect suitable interests from their investment and business growth; on the other hand regulators focus more on a reliable and cost-effective customer supply. This book shows how to take into consideration these different perspectives in the process of designing new structures and how to guarantee organizational transparency. Based on the major tasks of an asset manager, it describes essential principles and boundary conditions for ensuring the optimal use of resources in a network, such as investment and maintenance strategies, equipment service life, investment and operational costs, etc. Moreover, it points out their impact on the organization of the company, including the necessary IT landscape and computer programs. The book is the English translation of *Asset Management für Infrastrukturanlagen - Energie und Wasser*¹, written by the same authors and published by Springer in 2014.

Engineering Technology and Applications contains the contributions presented at the 2014 International Conference on Engineering Technology and Applications (ICETA 2014, Tsingtao, China, 29-30 April 2014). The book is divided into three main topics: Civil and environmental engineering Electrical and computer engineering Mechanical engineeringCon The Condition Assessment Scheme (CAS) for oil tankers was adopted in 2001 and is applicable to all single-hull tankers of 15 years or older. Although the CAS does not specify structural standards in excess of the provisions of other IMO conventions, codes and recommendations, its requirements stipulate more stringent and transparent verification of the reported structural condition of the ship and that documentary and survey procedures have been properly carried out and completed. The Scheme requires that compliance with the CAS is assessed during the Enhanced Survey Program of Inspections concurrent with intermediate or renewal surveys currently required by resolution A.744(18), as amended.--Publisher's description.

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Traditionally, power engineering has been a subfield of energy engineering and electrical engineering which deals with the generation, transmission, distribution and utilization of electric power and the electrical devices connected to such systems including generators, motors and transformers. Implicitly this perception is associated with the generation of power in large hydraulic, thermal and nuclear plants and distributed consumption. Faced with the climate change phenomena, humanity has had to now contend with changes in attitudes in respect of environment protection and depletion of classical energy resources. These have had consequences in the power production sector, already faced with negative public opinions on nuclear energy and favorable perception of renewable energy resources and about

distributed power generation. The objective of this edited book is to review all these changes and to present solutions for future power generation. Future energy systems must factor in the changes and developments in technology like improvements of natural gas combined cycles and clean coal technologies, carbon dioxide capture and storage, advancements in nuclear reactors and hydropower, renewable energy engineering, power-to-gas conversion and fuel cells, energy crops, new energy vectors biomass-hydrogen, thermal energy storage, new storage systems diffusion, modern substations, high voltage engineering equipment and compatibility, HVDC transmission with FACTS, advanced optimization in a liberalized market environment, active grids and smart grids, power system resilience, power quality and cost of supply, plug-in electric vehicles, smart metering, control and communication technologies, new key actors as prosumers, smart cities. The emerging research will enhance the security of energy systems, safety in operation, protection of environment, improve energy efficiency, reliability and sustainability. The book reviews current literature in the advances, innovative options and solutions in power engineering. It has been written for researchers, engineers, technicians and graduate and doctorate students interested in power engineering.

Small modular reactors (SMRs) generally include reactors with electric output of 3?50 MWe or less (this cutoff varies somewhat but is substantially less than full-size plant output of 700 MWe or more). Advanced SMRs (AdvSMRs) refer to a specific class of SMRs and are based on modularization of advanced reactor concepts. Enhancing affordability of AdvSMRs will be critical to ensuring wider deployment, as AdvSMRs suffer from loss of economies of scale inherent in small reactors when compared to large (greater than 600 MWe output) reactors and the controllable day-to-day costs of AdvSMRs will be dominated by operation and maintenance (O&M) costs. Technologies that help characterize real-time risk are important for controlling O&M costs. Risk monitors are used in current nuclear power plants to provide a point-in-time estimate of the system risk given the current plant configuration (e.g., equipment availability, operational regime, and environmental conditions). However, current risk monitors are unable to support the capability requirements listed above as they do not take into account plant-specific normal, abnormal, and deteriorating states of active components and systems. This report documents technology developments towards enhancing risk monitors that, if integrated with supervisory plant control systems, can provide the capability requirements listed and meet the goals of controlling O&M costs. The report describes research results on augmenting an initial methodology for enhanced risk monitors that integrate real-time information about equipment condition and POF into risk monitors. Methods to propagate uncertainty through the enhanced risk monitor are evaluated. Available data to quantify the level of uncertainty and the POF of key components are examined for their relevance, and a status update of this data evaluation is described. Finally, we describe potential targets for developing new risk metrics that may be useful for studying trade-offs for economic operation while maintaining adequate safety margins.

"Illustrates state-of-the-art planning, design, operational, and managerial methods. Demonstrates novel approaches to utilizing resources in an aging electric power delivery infrastructure-maximizing system effectiveness and maintaining competitive financial performance while reinforcing good customer service."

More Best Practices for Rotating Equipment follows Forsthoffer's multi-volume Rotating Equipment Handbooks, addressing the latest best practices in industrial rotating machinery and also including a comprehensive treatment of the basics for reference. The author's famous troubleshooting approach teaches the reader proven methodologies for installation, operation, and maintenance of equipment, and covers all phases of work with rotating equipment. Reliability optimization is also addressed for the first time. The book is ideal for engineers working in the design, installation, operation, and maintenance of power machinery. It is also an essential source of information for postgraduate students and researchers of mechanical and industrial engineering. Presents 200 new best practices for rotating equipment Offers an easy-to-use reference, with each chapter addressing a different type of equipment Covers all phases of work with rotating equipment, from pre-commissioning through maintenance

This book introduces the reader to the major components of a high voltage system and the different insulating materials applied in particular equipments. During a review of these materials, measurable properties suitable for condition assessment are identified. Analyses are included of some of the insulation fault scenarios that may occur in power equipment. The basic facilities for carrying out tests on the internal and external insulation structures at high and low voltages are described. Tests and measurements according to specifications, on-site requirements and research investigations are considered. Advances in the application of digital techniques for detection and analyses of partial discharges are discussed and methods in use, or under development, for service condition monitoring are described. These include the utilisation of new sensors, the solution of online problems associated with noise rejection and the adaptation of artificial intelligence techniques for incipient fault diagnosis.

Various factors affect the performance of electrical contacts, including tribological, mechanical, electrical, and materials aspects. Although these behaviors have been studied for many years, they are not widely used or understood in practice. Combining approaches used across the globe, *Electrical Contacts: Fundamentals, Applications, and Technology* integrates advances in research and development in the tribological, material, and analytical aspects of electrical contacts with new data on electrical current transfer at the micro- and nanoscales. Taking an application-oriented approach, the authors illustrate how material characteristics, tribological behavior, and loading impact the degradation of contacts, formation of intermetallics, and overall reliability and performance. Coverage is divided broadly into three sections, with the first focused on mechanics, tribology, materials, current and heat transfer, and basic reliability issues of electrical contacts. The next section explores applications, such as power connections, electronic connections, and sliding contacts, while the final section presents the diagnostic and monitoring techniques used to investigate and measure phenomena occurring at electrical contact interfaces. Numerous references to current literature reflect the fact that this book is the most comprehensive survey in the field. Explore an impressive collection of data, theory, and

practical applications in *Electrical Contacts: Fundamentals, Applications, and Technology*, a critical tool for anyone investigating or designing electrical equipment with improved performance and reliability in mind.

This book constitutes the thoroughly refereed post-conference proceedings of the First International ICST Conference on Wireless Communications and Applications, ICWCA 2011, held in Sanya, China, in August 2011. The 43 revised full papers presented were carefully reviewed and selected from around 90 submissions and cover a wide range of topics as mobile ad hoc networks, sensor networks, network architectural design, network protocol design, local area networks, MAC, routing, and transport protocols, quality of service provisioning, reliability and fault tolerance issues, resource allocation and management, signal processing, medical imaging, data aggregation techniques, security and privacy issues, wireless computing and applications for wireless network as smart grid, agriculture, health care, smart home, conditional monitoring, etc.

Good aging infrastructure management consists of optimizing the choice of equipment and its refurbishment while also making compatible changes in all those operating and ownership policies, the whole combination aimed at optimizing the business results the power system owner desires. Both a reference and tutorial guide, this second edition of *Aging Power Delivery Infrastructures* provides updated coverage of aging power delivery systems, the problems they cause, and the technical and managerial approaches that power systems owners can take to manage them. See *What's New in the Second Edition*: All chapters have been updated or are completely new Comprehensive discussions of all issues related to equipment aging Business impact analysis and models and engineering business studies of actual utility cases Strategy and policy issues and how to frame and customize them for specific situations This book looks at the basics of equipment aging and its system and business impacts on utilities. It covers various maintenance, service and retrofit methods available to mitigate age-related deterioration of equipment. It also presents numerous configuration and automation upgrades at the system level that can deal with higher portions of aging equipment in the system and still provide good service at a reasonable cost.

This book reports on innovative research and developments in automation. Spanning a wide range of disciplines, including communication engineering, power engineering, control engineering, instrumentation, signal processing and cybersecurity, it focuses on methods and findings aimed at improving the control and monitoring of industrial and manufacturing processes as well as safety. Based on the International Russian Automation Conference, held on September 6–12, 2020, in Sochi, Russia, the book provides academics and professionals with a timely overview of and extensive information on the state of the art in the field of automation and control systems, and fosters new ideas and collaborations between groups in different countries.

Leading the way in this field, the *Encyclopedia of Quantitative Risk Analysis and Assessment* is the first publication to offer a modern, comprehensive and in-depth resource to the huge variety of disciplines involved. A truly international work, its coverage ranges across risk issues pertinent to life scientists, engineers, policy makers, healthcare professionals, the finance industry, the military and practising statisticians. Drawing on the expertise of world-renowned authors and editors in this field this title provides up-to-date material on drug safety, investment theory, public policy applications, transportation safety, public perception of risk, epidemiological risk, national defence and security, critical infrastructure, and program management. This major publication is easily accessible for all those involved in the field of risk assessment and analysis. For ease-of-use it is available in print and online.

Information Technology and Career Education contains the contributions presented at the 2014 International Conference on Information Technology and Career Education (ICITCE 2014, Hong Kong, China, 9-10 October 2014). The book is divided into two main topics: information technology and vocational technology. Considerable attention is also paid to e-learning.

In recent years, process safety management system compliance audits have revealed that organizations often have significant opportunities for improving their Mechanical Integrity programs. As part of the Center for Chemical Process Safety's Guidelines series, *Guidelines for Mechanical Integrity Systems* provides practitioners a basic familiarity of mechanical integrity concepts and best practices. The book recommends efficient approaches for establishing a successful MI program.

The technological developments in electrical power generation over the last decade have enabled creation of large pulverized coal fired and combined cycle power plants. These are required to run continuously without faults to assure highest reliability and availability of electrical power around the clock. *Condition Monitoring in Large Thermal Power Plants* deals with monitoring the operational integrity of boiler and turbine generator plants that includes pumps, fans etc - A most important step in achieving highest reliability and availability.

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