



# **MACHINERY CONDITION MONITORING**

**PRINCIPLES AND PRACTICES**

**A M I Y A R . M O H A N T Y**



**CRC Press**  
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# Machinery Condition Monitoring Principles And Practices

**Institution of Engineers and  
Shipbuilders in Scotland**



## **Machinery Condition Monitoring Principles And Practices:**

**Machinery Condition Monitoring** Amiya Ranjan Mohanty, 2014-12-22 Find the Fault in the Machines Drawing on the author's more than two decades of experience with machinery condition monitoring and consulting for industries in India and abroad Machinery Condition Monitoring Principles and Practices introduces the practicing engineer to the techniques used to effectively detect and diagnose faults in machines Providing the working principle behind the instruments the important elements of machines as well as the technique to understand their conditions this text presents every available method of machine fault detection occurring in machines in general and rotating machines in particular A Single Source Solution for Practice Machinery Conditioning Monitoring Since vibration is one of the most widely used fault detection techniques the book offers an assessment of vibration analysis and rotor dynamics It also covers the techniques of wear and debris analysis and motor current signature analysis to detect faults in rotating mechanical systems as well as thermography the nondestructive test NDT techniques ultrasonics and radiography and additional methods The author includes relevant case studies from his own experience spanning over the past 20 years and detailing practical fault diagnosis exercises involving various industries ranging from steel and cement plants to gas turbine driven frigates While mathematics is kept to a minimum he also provides worked examples and MATLAB codes This book contains 15 chapters and provides topical information that includes A brief overview of the maintenance techniques Fundamentals of machinery vibration and rotor dynamics Basics of signal processing and instrumentation which are essential for monitoring the health of machines Requirements of vibration monitoring and noise monitoring Electrical machinery faults Thermography for condition monitoring Techniques of wear debris analysis and some of the nondestructive test NDT techniques for condition monitoring like ultrasonics and radiography Machine tool condition monitoring Engineering failure analysis Several case studies mostly on failure analysis from the author's consulting experience Machinery Condition Monitoring Principles and Practices presents the latest techniques in fault diagnosis and prognosis provides many real life practical examples and empowers you to diagnose the faults in machines all on your own *Machinery Condition Monitoring* Amiya Ranjan Mohanty, 2014-12-22 Find the Fault in the Machines Drawing on the author's more than two decades of experience with machinery condition monitoring and consulting for industries in India and abroad Machinery Condition Monitoring Principles and Practices introduces the practicing engineer to the techniques used to effectively detect and diagnose faults in machines Providing the working principle behind the instruments the important elements of machines as well as the technique to understand their conditions this text presents every available method of machine fault detection occurring in machines in general and rotating machines in particular A Single Source Solution for Practice Machinery Conditioning Monitoring Since vibration is one of the most widely used fault detection techniques the book offers an assessment of vibration analysis and rotor dynamics It also covers the techniques of wear and debris analysis and motor current signature analysis to detect faults in rotating

mechanical systems as well as thermography the nondestructive test NDT techniques ultrasonics and radiography and additional methods The author includes relevant case studies from his own experience spanning over the past 20 years and detailing practical fault diagnosis exercises involving various industries ranging from steel and cement plants to gas turbine driven frigates While mathematics is kept to a minimum he also provides worked examples and MATLAB codes This book contains 15 chapters and provides topical information that includes A brief overview of the maintenance techniques Fundamentals of machinery vibration and rotor dynamics Basics of signal processing and instrumentation which are essential for monitoring the health of machines Requirements of vibration monitoring and noise monitoring Electrical machinery faults Thermography for condition monitoring Techniques of wear debris analysis and some of the nondestructive test NDT techniques for condition monitoring like ultrasonics and radiography Machine tool condition monitoring Engineering failure analysis Several case studies mostly on failure analysis from the author s consulting experience Machinery Condition Monitoring Principles and Practices presents the latest techniques in fault diagnosis and prognosis provides many real life practical examples and empowers you to diagnose the faults in machines all on your own *Condition Monitoring with Vibration Signals* Hosameldin Ahmed,Asoke K. Nandi,2020-01-14 Provides an extensive up to date treatment of techniques used for machine condition monitoring Clear and concise throughout this accessible book is the first to be wholly devoted to the field of condition monitoring for rotating machines using vibration signals It covers various feature extraction feature selection and classification methods as well as their applications to machine vibration datasets It also presents new methods including machine learning and compressive sampling which help to improve safety reliability and performance *Condition Monitoring with Vibration Signals Compressive Sampling and Learning Algorithms for Rotating Machines* starts by introducing readers to Vibration Analysis Techniques and Machine Condition Monitoring MCM It then offers readers sections covering Rotating Machine Condition Monitoring using Learning Algorithms Classification Algorithms and New Fault Diagnosis Frameworks designed for MCM Readers will learn signal processing in the time frequency domain methods for linear subspace learning and the basic principles of the learning method Artificial Neural Network ANN They will also discover recent trends of deep learning in the field of machine condition monitoring new feature learning frameworks based on compressive sampling subspace learning techniques for machine condition monitoring and much more Covers the fundamental as well as the state of the art approaches to machine condition monitoring guiding readers from the basics of rotating machines to the generation of knowledge using vibration signals Provides new methods including machine learning and compressive sampling which offer significant improvements in accuracy with reduced computational costs Features learning algorithms that can be used for fault diagnosis and prognosis Includes previously and recently developed dimensionality reduction techniques and classification algorithms *Condition Monitoring with Vibration Signals Compressive Sampling and Learning Algorithms for Rotating Machines* is an excellent book for research students postgraduate students

industrial practitioners and researchers      *Advances in Asset Management and Condition Monitoring* Andrew Ball, Len Gelman, B. K. N. Rao, 2020-08-27 This book gathers select contributions from the 32nd International Congress and Exhibition on Condition Monitoring and Diagnostic Engineering Management COMADEM 2019 held at the University of Huddersfield UK in September 2019 and jointly organized by the University of Huddersfield and COMADEM International The aim of the Congress was to promote awareness of the rapidly emerging interdisciplinary areas of condition monitoring and diagnostic engineering management The contents discuss the latest tools and techniques in the multidisciplinary field of performance monitoring root cause failure modes analysis failure diagnosis prognosis and proactive management of industrial systems There is a special focus on digitally enabled asset management and covers several topics such as condition monitoring maintenance structural health monitoring non destructive testing and other allied areas Bringing together expert contributions from academia and industry this book will be a valuable resource for those interested in latest condition monitoring and asset management techniques      *Maintenance Engineering (Principles, Practices and Management)* Srivastava, Sushil Kumar, 2006 This book is highly useful for the students of B E B Tech of Punjab Technological University Jalandhar and also for the other Technological Universities of India as per New Syllabus Accordingly few sample questions are given at the end of each chapter The chapter and topics covered in this book are expected to encompass the syllabus that may be needed by various colleges institutions in maintenance field It also serves as a reference book for students of all other engineering disciplines in universities colleges institutions and also vast numbers of engineer managers supervisors technologists and other persons working in or associated with maintenance and upkeep of machines equipments and systems in any shop plant or industry      *Design of an Intelligent Embedded System for Condition Monitoring of an Industrial Robot* Alaa Abdulhady Jaber, 2016-09-08 This thesis introduces a successfully designed and commissioned intelligent health monitoring system specifically for use on any industrial robot which is able to predict the onset of faults in the joints of the geared transmissions However the developed embedded wireless condition monitoring system leads itself very well for applications on any power transmission equipment in which the loads and speeds are not constant and access is restricted As such this provides significant scope for future development Three significant achievements are presented in this thesis First the development of a condition monitoring algorithm based on vibration analysis of an industrial robot for fault detection and diagnosis The combined use of a statistical control chart with time domain signal analysis for detecting a fault via an arm mounted wireless processor system represents the first stage of fault detection Second the design and development of a sophisticated embedded microprocessor base station for online implementation of the intelligent condition monitoring algorithm and third the implementation of a discrete wavelet transform using an artificial neural network with statistical feature extraction for robot fault diagnosis in which the vibration signals are first decomposed into eight levels of wavelet coefficients      Engineering Condition Monitoring Ron Barron, Dr. Ron Barron, 1996 Maintenance can account for an

extremely large proportion of the operating costs of machinery. Additionally, the downtime caused by machine breakdowns can severely affect the productivity of factories or the safety of products. Thus, it is becoming increasingly important for companies to consider the monitoring of their equipment in situ in order to reduce the number of breakdowns experienced and to avoid the unnecessary cost and delay caused by repairs. Engineering Condition Monitoring provides an overview of all aspects of this important technique, paying special attention to the vibration analysis of rotating machines. The text will be suitable for industrial practitioners and managers along with postgraduate students involved in mechanical and manufacturing engineering. The authors have used their vast collective experience both in industry and as academic teachers to produce a broad descriptive text concentrating on practical aspects that will be invaluable to anyone involved in the operation or sub-contracting of condition monitoring methods.

COMADEM 88, 1988-06-30      **Proactive Condition Monitoring of Low-Speed Machines** Zhaklina Stamboliska, Eugeniusz Rusiński, Przemysław Moczko, 2014-11-15 This book broadens readers' understanding of proactive condition monitoring of low speed machines in heavy industries. It focuses on why low speed machines are different than others and how maintenance of these machines should be implemented with particular attention. The authors explain the best available monitoring techniques for various equipment and the principle of how to get proactive information from each technique. They further put forward possible strategies for application of FEM for detection of faults and technical assessment of machinery. Implementation phases are described and industrial case studies of proactive condition monitoring are included. Proactive Condition Monitoring of Low Speed Machines is an essential resource for engineers and technical managers across a range of industries as well as design engineers working in industrial product development.

**Condition Monitoring with Vibration Signals** Hosameldin Ahmed, Asoke K. Nandi, 2019-10-16 Provides an extensive up to date treatment of techniques used for machine condition monitoring. Clear and concise throughout, this accessible book is the first to be wholly devoted to the field of condition monitoring for rotating machines using vibration signals. It covers various feature extraction, feature selection and classification methods as well as their applications to machine vibration datasets. It also presents new methods including machine learning and compressive sampling which help to improve safety, reliability and performance.

**Condition Monitoring with Vibration Signals: Compressive Sampling and Learning Algorithms for Rotating Machines** starts by introducing readers to Vibration Analysis Techniques and Machine Condition Monitoring (MCM). It then offers readers sections covering Rotating Machine Condition Monitoring using Learning Algorithms, Classification Algorithms and New Fault Diagnosis Frameworks designed for MCM. Readers will learn signal processing in the time-frequency domain, methods for linear subspace learning and the basic principles of the learning method Artificial Neural Network (ANN). They will also discover recent trends of deep learning in the field of machine condition monitoring, new feature learning frameworks based on compressive sampling, subspace learning techniques for machine condition monitoring and much more. Covers the fundamental as well as the state of the art approaches to machine



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