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Condition Monitoring Methods and Economics

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Find the Fault in the Machines Drawing on the author's more than two decades of experience with



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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

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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

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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.

Mechanical Vibrations and Condition Monitoring presents a collection of data and insights on the study of mechanical vibrations for the predictive maintenance of machinery. Seven chapters cover the foundations of mechanical vibrations, spectrum analysis, instruments, causes and effects of vibration, alignment and balancing methods, practical cases, and guidelines for the implementation of a predictive maintenance program. Readers will be able to use the

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book to make predictive maintenance decisions based on vibration analysis. This title will be useful to senior engineers and technicians looking for practical solutions to predictive maintenance problems. However, the book will also be useful to technicians looking to ground maintenance observations and decisions in the vibratory behavior of machine components. Presents data and insights into mechanical vibrations in condition monitoring and the predictive maintenance of industrial machinery Defines the key concepts related to mechanical vibration and its application for predicting mechanical failure Describes the dynamic behavior of most important mechanical components found in industrial

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machinery Explains fundamental concepts such as signal analysis and the Fourier transform necessary to understand mechanical vibration Provides analysis of most sources of failure in mechanical systems, affording an introduction to more complex signal analysis

NDE Handbook: Non-Destructive Examination Methods for Condition Monitoring deals with monitoring of equipment, structures, and pipes in mechanical engineering, in the processing industry, in construction, and in electrotechnical fields. The book explains acoustic cross correlation involving leak detection in buried main water pipes or heating pipes

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by using special instruments to detect the flow noise generated at the point of fracture. The acoustic emission method, based on collection of vibrations or sound waves from the suspected material, can detect changes occurring in the material. Magnetic methods and eddy currents can measure the thickness of the coating on specific materials; dye penetrants can expose cracks or cleavages in surface materials; and emission spectroscopy can identify or sort the chemical composition of steel. The book also describes an endoscope used to visualize the interior of objects and the electrical resistance probe that can measure the loss of material based on changes in the electrical resistance. Other NDE methods that are

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used by investigators include stress pattern analysis by thermal emission, pulsed video thermography, Moire contour mapping, holographic interferometry, computerized tomography, and positron annihilation. The book will prove valuable for engineers, physicists, technicians, operators involved in material research, risk prevention, or accident control, and for general readers interested in materials quality and specifications.

Condition modelling and control is a technique used to enable decision-making in manufacturing processes of interest to researchers and practising engineering.  
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clinicians to find the potential source of a false-positive or a false-negative result in the daily operation of a toxicology laboratory. At the same time, this book can also be used as a reference for medical technologists, supervisors, laboratory directors, clinical chemists, toxicologists, and pathologists to find in-depth cause of a potential interference and what tests can be ordered to circumvent such problem. The volume's first half focuses on various issues of therapeutic drug monitoring. Additional chapters cover analysis of heavy metals, alcohol testing, and issues of drugs of abuse testing. These chapters are written by experts in their relative sub-specialties and also by the editor.

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The reliability of induction motors is a major requirement in many industrial applications. It is especially important where an unexpected breakdown might result in the interruption of critical services such as military operations, transportation, aviation, and medical applications. Advanced Condition Monitoring and Fault Diagnosis of Electric Machines is a collection of innovative research on various issues related to machinery condition monitoring, signal processing and conditioning, instrumentation and measurements, and new trends in condition monitoring. It also pays special attention to the fault identification process. While highlighting topics including spectral analysis, electrical engineering, and

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