

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/Generators	Compressors	Heavy Equipment/Cranes	Circuit Breakers	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	
Motor Current Signature Analysis			X									
Motor Circuit Analysis			X				X			X		
Polarization Index			X	X						X		
Electrical Monitoring										X	X	

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Table of Contents Chapter 6 Predictive Maintenance Technologies

1. Understanding the eBook Chapter 6 Predictive Maintenance Technologies
 - The Rise of Digital Reading Chapter 6 Predictive Maintenance Technologies
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 6 Predictive Maintenance Technologies
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 6 Predictive Maintenance Technologies
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 6 Predictive Maintenance Technologies
 - Personalized Recommendations
 - Chapter 6 Predictive Maintenance Technologies User Reviews and Ratings
 - Chapter 6 Predictive Maintenance Technologies and Bestseller Lists
5. Accessing Chapter 6 Predictive Maintenance Technologies Free and Paid eBooks

- Chapter 6 Predictive Maintenance Technologies Public Domain eBooks
 - Chapter 6 Predictive Maintenance Technologies eBook Subscription Services
 - Chapter 6 Predictive Maintenance Technologies Budget-Friendly Options
6. Navigating Chapter 6 Predictive Maintenance Technologies eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 6 Predictive Maintenance Technologies Compatibility with Devices
 - Chapter 6 Predictive Maintenance Technologies Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 6 Predictive Maintenance Technologies
 - Highlighting and Note-Taking Chapter 6 Predictive Maintenance Technologies
 - Interactive Elements Chapter 6 Predictive Maintenance Technologies
 8. Staying Engaged with Chapter 6 Predictive Maintenance Technologies
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 6 Predictive Maintenance Technologies
 9. Balancing eBooks and Physical Books Chapter 6 Predictive Maintenance Technologies
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 6 Predictive Maintenance Technologies
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Chapter 6 Predictive Maintenance Technologies
 - Setting Reading Goals Chapter 6 Predictive Maintenance Technologies
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Chapter 6 Predictive Maintenance Technologies
 - Fact-Checking eBook Content of Chapter 6 Predictive Maintenance Technologies
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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