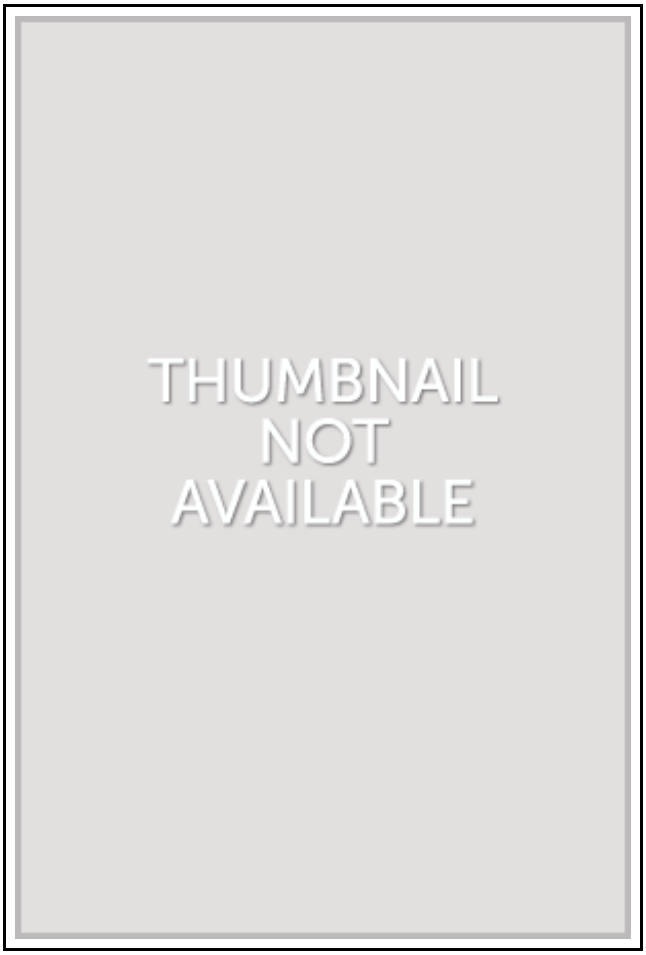
Diagnostics and Failure Prevention in Turbo-Machines



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DIAGNOSTICS AND FAILURE PREVENTION IN TURBO-MACHINES

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New Age International, 2015. Hardcover. Book Condition: New. 1st Edition. Contents: I. Diagnostics and Control Theory: 1. Failure Modes in Turbine Components. 2. Diagnostics and System Control. 3. Automatic Control Theory. 4. Instrumentation for Parameter Measurement. 5. Regulation and Control Devices. II. Turbo-Machinery Types: 6. Turbines for Aircraft Propulsion. 7. Heavy-Duty Steam Turbine. 8. Industrial and Power Generation Gas Turbines. 9. Aero-Derivative Engine for Ship and Offshore Oil Platform. III. Component and System Failure Modes: 10. Failure Root Cause. 11. Role of Thermodynamics and Aerodynamics. 12. Engine Vibration. 13. Steady and Dynamic Stresses. 14. Structural Failure from Material Fatigue. 15. Thermal Distortion of Hot Path. 16. Pitfalls in Fan and Compressor Operation. 17. Problems Encountered in Combustion of Fuel. 18. Difficulties in Hot Gas Expansion in Turbine. 19. Performance Deterioration. 20. Systemic Faults. Modern turbo-machines are marvels of technology, perform a plethora of services, and are found on the land, in the air and on the high seas. Aviation jet engines propel aircraft, steam and gas turbines produce electric power, and aero-derivative engines are used on offshore oil platforms and onboard ships. But the turbines are subject to failure from a host of conditions: Failure of speed control mechanism can cause the rotor to burst from excessive tangential stresses, leading to immense destruction of life and property. Loss of lubricant can destroy support bearings and damage rotating blade tips. Separation of rotor blade causes fragments to penetrate casing, causing enormous damage. Elevated operating temperatures in the turbine lead to thermal fatigue. Thermal distortion in the combustor can cause fires. Mechanical shock, compressor stall, and bird strike can induce severe failures. Cyclical and dynamic vibratory loads lead to failure from metal fatigue. Formation of exhaust gas pollutants must be maintained within limits. This book provides valuable tools for diagnosing and preventing...

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