

Control System Trends in Turbo-machinery (Hardback)



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CONTROL SYSTEM TRENDS IN TURBO-MACHINERY (HARDBACK)



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Anshan Ltd, United Kingdom, 2011. Hardback. Condition: New. Language: English . Brand New Book. The speeds at which modern turbo-machines such as aircraft engines and power generation turbines operate are so high and the time available to react to a possible emergency situation so small that human interface is mostly of little consequence. The automatic control system built inside the modern turbo-machines senses, measures and controls operating parameters which the engine is running. If one or more operating parameters goes beyond set limits because of a malfunction, the control system has the capability to detect the fault, establish a course of corrective action, issue instructions, and execute the commands that will rectify the situation. The entire sequence of detecting, evaluating and taking remedial action occurs over a period that is timed in milliseconds. This book provides detailed procedures for automatic control theory and its methods to improve efficiency by reducing fuel consumption, and in the process also reduce exhaust gas emissions. The book focuses on: * Fuel consumption, power output and exhaust gas emissions * State-of-the-art in sensor and actuator technologies * Achieving target objectives through creative controller stall to controlling rotor vibrations * Real-time simulation to maximise operating efficiency Growth in machine operating parameters and user expectations require exacting methods. Emphasis is placed on practical methods related to instrumentation, understanding concepts, interpreting results and obtaining solutions. Analysis as a problem-solving tool is the focus.



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