



Sensors and Actuators in Mechatronics: Design and Applications

Andrzej M Pawlak

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From large-scale industrial systems to components in consumer applications, mechatronics has woven itself into the very fabric of modern technology. Among the most important elements of mechatronic systems are electromagnetic sensors and electromechanical actuators. Cultivated over years of industrial and research experience, Sensors and Actuators in Mechatronics: Design and Applications builds a practical understanding of the features and functions of various electromagnetic and electromechanical devices necessary to meet specific industrial requirements.

This work focuses on various components that receive less attention in the available literature, such as magnetic sensors, linear and latching solenoid actuators, stepper motors, rotary actuators, and other special magnetic devices including magnetic valves and heart pumps. Each chapter follows a consistent format, working from theory to design, applications, and numerical problems and solutions. Although the crux of the coverage is design and application, the author also discusses optimization and testing, introduces magnetic materials, and shares his enlightened perspective on the social and business aspects of developing world-class technologies. Examples from mainly the automotive industry illustrate the wide variety of mechatronic devices presented.

Providing a complete picture from conception to completion, Sensors and Actuators in Mechatronics: Design and Applications places critical tools in the hands of any researcher or engineer seeking to develop innovative mechatronic systems.



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