

Sensors And Actuators In Mechatronics Design And Applications

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Lecture 01 : Introduction : Sensing and Actuation [Sensors And Actuators In Mechatronics](#) [Sensors & Actuators In Mechatronics](#) Dr. Kevin Craig Associate Professor of Mechanical Engineering Department of Mechanical, Aerospace, and Nuclear Engineering Rensselaer Polytechnic Institute Troy, NY 12180 Office: JEC 3018 Phone: 518-276-6626 E-Mail: craigk@rpi.edu Fax: 518-276-4860 Mechatronics Laboratory: JEC 1022 Phone: 518-276-8978

~~Sensors & Actuators In Mechatronics~~

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.

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Introduction to Sensors & Actuators Page 3 Objective of Mechatronics system 1. Integration of mechanical systems with electronic and computer systems. 2. To improve efficiency of the system. 3. To reduce cost of production. 4. To achieve high accuracy and precision. 5. For easy control of the system. 6. Customer satisfaction and comfort.

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Sensors & Actuators In Mechatronics In the mechanical part, the engineer must follow a rigorous procedure to design the mechatronic system. He must build the mechanical part of the system and choose the appropriate sensors and actuators that have to be used in the

~~Mechatronic Systems Sensors And Actuators Fundamentals~~

Microcomputers can be integrated with the actuator, the process or sensor, or can be arranged at several places. Integrated sensors and microcomputers lead to smart sensors, and integrated actuators and microcomputers lead to smart actuators. For larger systems, bus connections will replace cables.

~~Mechatronic Systems, Sensors, And Actuators | Robert H ...~~

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Actuators in motion control systems: mechatronics Actuators are irreplaceable constituents of mechatronic motion control systems. Moreover, they are true mechatronic systems: that is, concurrent engineering is required to fully exploit their potential as actuators. This chapter analyzes the actuator as a device included in motion control systems.

~~Actuators in motion control systems: mechatronics~~

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The sensors detect the state of the system parameters, inputs, and outputs. The various actuators used in the mechatronic system are pneumatic and hydraulic actuators, electro-mechanical actuators, electrical motors such as DC motors, AC motors, stepper motors, servomotors, and piezoelectric actuators.

~~What are the basic Elements of Mechatronics System~~

Mechatronics Case Study: Lunar Rover Sensors and Actuators Problem statement. The aim is to design a lunar rover to explore the surface of the Moon and send back useful data for a period of a year. Different sensors and actuators are to be applied to the rover to receive useful information about the rover's exploration.

~~Mechatronics Case Study: Lunar Rover Sensors and Actuators~~

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