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54, 66]. The history of attitude sensor  
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Mechatronic systems are composed of mechanical and electrical components, referred as “smart” systems because of the integration of sensors, actuators,

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and control systems. Essential part of a  
mechatronics system is the  
measurement system that senses the  
variations in the physical parameters,  
such as temperature, pressure,  
displacement, and ...

## **Sensors and Digital Signal Conditioning in Mechatronic**



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The term mechatronics system (sometimes referred to as smart device) encompasses a myriad of devices and systems. Increasingly, microcontrollers are embedded in the electromechanical devices, creating much more flexibility and control possibilities in system design. Components of a typical

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Mechatronics system Actuators: produce motion or

## **LECTURE NOTES ON MECHATRONICS**

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

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mechatronic systems are  
electromagnetic sensors and  
electromechanical actuators. Cultivated  
over years of industrial and research

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## **Sensors and Actuators in Mechatronics: Design and ...**

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Mechatronics provides solutions that are  
efficient and reliable systems.

Mechatronic Systems mostly have  
microcomputers to ensure smooth  
functioning and higher dependability.  
The sensors in these systems absorb  
signals from the surroundings, react to  
these signals using appropriate  
processing to generate acquired output

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signals. Few examples of Mechatronics  
System are automated guided vehicles

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### **Mechatronics : An Overview**

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the original definition of mechatronics

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proposed by the Yasakawa Electric  
Company and the definitions that have  
appeared since, many of the engineering  
products designed and manufactured in  
the last 30 years integrating mechanical  
and electrical systems can be classified  
as mechatronic ...

## **MECHATRONICS SYSTEM,SENSORS,**

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Modelling The Mechatronics Handbook Second Edition

Various elements in typical mechatronic systems are shown in Figure 1.2 and are described here under. mechatronics system (i) Actuators and sensors (ii) Signals and conditioning (iii) Digital logic Systems (iv) Software and data acquisition systems (v) Computers and display devices.

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## **What are the basic Elements of Mechatronics System**

Many micro sensors, including biosensors and chemical sensors can be mass-produced. The ability to combine these mechanical structures and electronic circuitry on the same piece of silicon is also important. Actuators are



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another important component of a mechatronic system. Actuators are usually electrical, mechanical, fluid power or pneumatic ...

## **What is the function of a sensor and an actuator in a ...**

Actuators in motion control systems:  
mechatronics Actuators are

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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.

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**Actuators in motion control systems: mechatronics**

actuators play a primary role in mechatronic systems and their design and development within the integrative nature of a mechatronic approach, is critical for a successful design process. As sensors and transducers produce the input to the mechatronic system, drives

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and actuators provide the output of the  
system, influencing the system itself ...

## **5. Actuation in Mechatronic Systems**

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features and functions of various  
electromagnetic and electromechanical  
devices necessary to meet specific ...

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