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mechatronic  
systems are  
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system 1.

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mechanical  
systems with  
electronic and  
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- Design And  
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2. To improve efficiency of the system.
  3. To reduce cost of production.
  4. To achieve high accuracy and precision.
  5. For easy

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control of the  
system. 6.  
Customer  
satisfaction and  
comfort.

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necessary to  
meet specific  
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the mechanical

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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

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actuators that  
have to be used  
in the

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~~Mechatronic  
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~~Fundamentals~~

Microcomputers

can be

integrated with

the actuator,

the process or

sensor, or can

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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

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nical devices  
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motion control

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Sensors And

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Actuators are

irreplaceable

constituents of

mechatronic

motion control

systems.

Moreover, they

are true

mechatronic

systems: that

is, concurrent

engineering is

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required to  
fully exploit  
their potential  
as actuators.

This chapter  
analyzes the  
actuator as a  
device included  
in motion  
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The sensors

detect the state

of the system

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parameters, and

inputs, and  
outputs. The  
various

actuators, used

in the  
mechatronic

system are

pneumatic and  
hydraulic

actuators, elect  
ro-mechanical

actuators,  
electrical

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motors such as  
DC motors, AC  
motors, stepper  
motors,  
servomotors, and  
piezoelectric  
actuators.

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

Mechatronics

Case Study:

*Page 44/49*

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Lunar Rover And

Sensors and  
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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

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sensors and  
actuators are to  
be applied to  
the rover to  
receive useful  
information  
about the  
rover's  
exploration.

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