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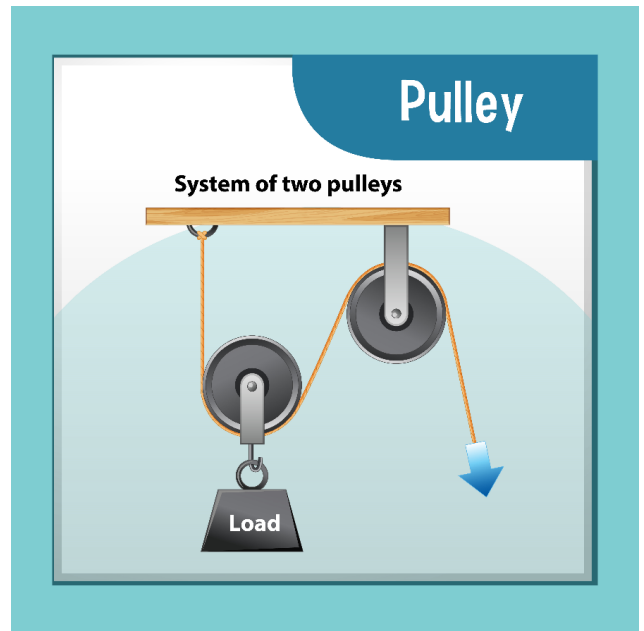
Technology

Mechanical Systems and Control

What is Technology?

Technology refers to the tools, machines, and systems we create to make our lives easier and more efficient. It is the practical application of scientific knowledge and engineering principles to create tools, systems, machines, and devices that can solve problems, improve efficiency, and enhance our daily lives.

It encompasses many innovations, from simple tools like a wheel or hammer to complex and advanced creations such as computers, smartphones, and spacecraft. Technology can be divided into various categories, including information technology, medical technology, transportation technology and more, each designed to address specific needs and tasks. It plays a crucial role in modern society, and as it continues to advance, it opens up new technologies and opportunities for innovation and progress.



Understanding Mechanical Systems and Control

Mechanical systems are a combination of parts working together to perform a specific task. Examples include bicycles, door locks, and even the human body.

The basic components of mechanical systems are the input (force or energy applied), mechanisms (gears, levers, pulleys), and output (the desired action).

Various mechanical systems include a door lock, bicycle, or car engine. The basic components of mechanical systems work together to perform a specific task or achieve a desired outcome. Here's how each of these components works:



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