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MECHANICAL ENGINEERING

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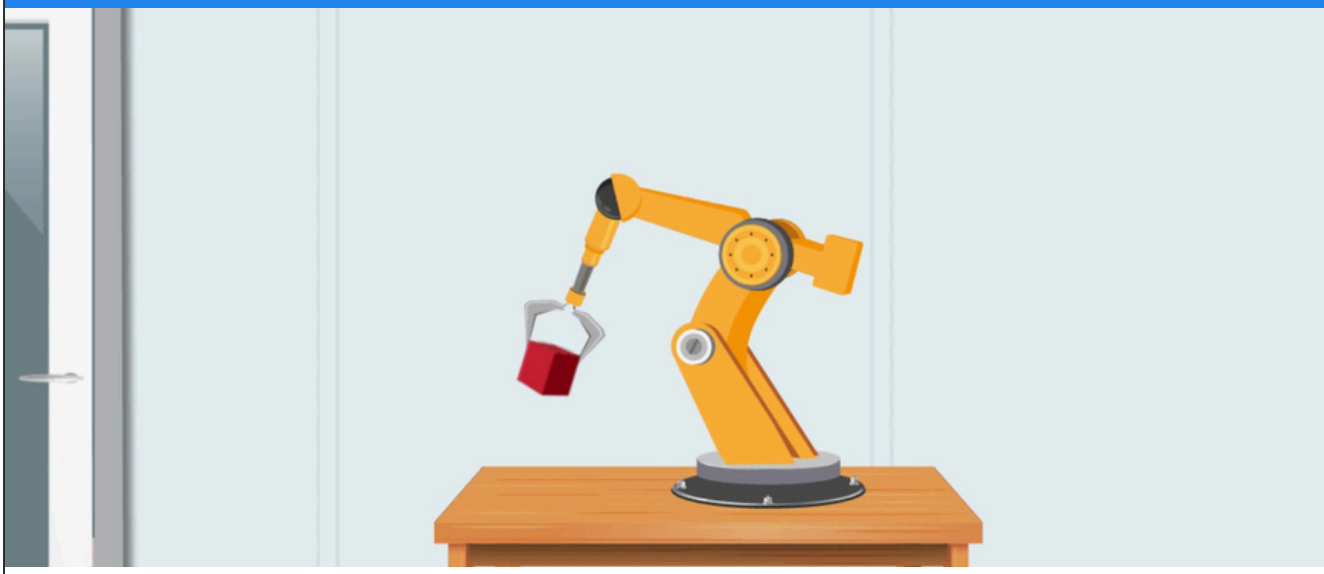

5
Topics

700+
Lessons

183
Scientist-In-Action Videos

Core Learning Objectives

- Grasp statics and mechanics principles, including forces, vectors, and equilibrium.
- Calculate force vectors, scalar/vector products, and moments with proficiency.
- Apply force and moment concepts to analyze rigid body equilibrium.
- Solve equilibrium problems for particles and rigid bodies, analyze structures.
- Analyze internal forces in beams, determine shear force, bending moment diagrams, and understand friction effects.
- Apply fluid pressure, centroid determination, moment of inertia, and virtual work to solve equilibrium problems and analyze stability.

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MECHANICAL ENGINEERING

01 JoVE Core: Mechanical Engineering

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02 JoVE Core: Physics

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05 Physics

List of Topics

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