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Lagrangian
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7 4 Which Is Lagrange's Equations in Generalized Coordinates
Hamilton's Principle
Euler Lagrange Equations of Motion of the System
Projectile Motion
Find the Equations of Motion in both Cartesian and Polar Coordinates
Polar Coordinates
Conservation of Angular Momentum
Variational Calculus Equation
Generalized Forces of Constraint
The Undetermined Multiplier
Hemisphere Example
Force of Constraint
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Particle Moving in Plane Polar Coordinates
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Newtonian Solution
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Review of the Calculus of Variations
Lagrangian Mechanics
Motion of a Ball
Pendulum
When to use Lagrangian?
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The Equations of Motion
Generalized Coordinates
Kinetic Energy
The Lagrangian
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Lagrangian Mechanics
Hamiltonian Mechanics
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translationally symmetric
Conservation Laws
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The path of action
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Can we see into the future
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Cause and Effect
Energy
Stationary Points

Does it check
Generalized coordinates
Configuration space
Outro
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Practice problem
Step 1 of Feynman's strategy
Step 1: example
Step 2 of Feynman's strategy
Step 2: example
Step 3 of Feynman's strategy
The problem solving procedure
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Einstein and dislocations
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