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Abstract

- Define generalized co-ordinates
- Which type of coordinate can be expressed as an equation involving only the coordinates and time, but not velocities?
 - Generalized coordinate
 - Non holonomic coordinate
 - Holonomic coordinate
 - Microscopic coordinate
- The Lagrange's equations are derived using which of the following principle?
 - Principle of Virtual Work
 - D'Alembert's Principle
 - Principle of Least Action
 - Newton's Second Law
- Write the following
 - Principle of Least Action
 - $\delta \int_{t_1}^{t_2} L dt = 0$
 - General Form of Lagrange's Equations
 - General concept of a system when Lagrange's equations are applied
- Single Particle
 - Principle used to derive Lagrange's equations
 - Single-Particle Transformation
 - Integral of action associated in the absence of external input
- Write the following
 - D'Alembert's Principle
 - $\delta \int_{t_1}^{t_2} L dt = 0$
 - D'Alembert's Equations
 - Use the actual path when in a system in the case that conserves the actual δ
 - Holonomic Principle
 - $\delta \int_{t_1}^{t_2} L dt = 0$
 - General Transformation
 - Use the principle for form of D'Alembert's equations
- Replace your holonomic system
- Write the energy modified function - Jacobi Equation
 - $H(p, q, t) = \frac{1}{2} \left(\frac{p}{m} \right)^2 + V(q, t) = E$
 - $H(p, q, t) = \frac{1}{2} \left(\frac{p}{m} \right)^2 + V(q, t) = 0$
 - $H(p, q, t) = \frac{1}{2} \left(\frac{p}{m} \right)^2 + V(q, t) = 1$
 - $H(p, q, t) = \frac{1}{2} \left(\frac{p}{m} \right)^2 + V(q, t) = 2$
- Describe impulsivity
- Obtain the canonical transformations
- Describe symplectic transformation

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11. (a) A particle of mass m is suspended by a massless string of length l and is released at $(\theta = 0, \dot{\theta} = 0)$ in the xy -plane. Find the equations of motion.
- [30]
- (b) Explain the principle of virtual work.
12. (a) Derive Euler's equations.
- [10]
- (b) Derive Lagrange's equations.

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