

## Homework 3

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## 1 Goldstein 8.1

## 1.1 Part (a)

The Hamiltonian is given by

$$H(q_i, p_i, t) = p_i \dot{q}_i - L(q_i, \dot{q}_i, t) \quad (1)$$

where all the  $\dot{q}_i$ 's on the RHS are to be expressed in terms of  $q_i$ ,  $p_i$  and  $t$ . Now,

$$dH = \frac{\partial H}{\partial q_i} dq_i + \frac{\partial H}{\partial p_i} dp_i + \frac{\partial H}{\partial t} dt \quad (2)$$

From (1),

$$\begin{aligned} dH &= p_i d\dot{q}_i + \dot{q}_i dp_i - dL \\ &= p_i d\dot{q}_i + \dot{q}_i dp_i - \left( \frac{\partial L}{\partial q_i} dq_i + \frac{\partial L}{\partial \dot{q}_i} d\dot{q}_i + \frac{\partial L}{\partial t} dt \right) \\ &= -\frac{\partial L}{\partial q_i} dq_i + \dot{q}_i dp_i + \left( p_i - \frac{\partial L}{\partial \dot{q}_i} \right) d\dot{q}_i - \frac{\partial L}{\partial t} dt \end{aligned} \quad (3)$$

Comparing (2) and (3) we get

$$\frac{\partial H}{\partial q_i} = -\frac{\partial L}{\partial q_i} = -\dot{p}_i \quad (\text{2nd equality from Hamilton's equation}) \quad (4)$$

$$\dot{q}_i = \frac{\partial H}{\partial p_i} \quad (\text{also Hamilton's equation}) \quad (5)$$

$$p_i - \frac{\partial L}{\partial \dot{q}_i} = 0 \quad (\text{H is not explicitly dependent on } \dot{q}_i) \quad (6)$$

$$-\frac{\partial L}{\partial t} = \frac{\partial H}{\partial t} \quad (7)$$

From (4) and (6) we have

$$\frac{d}{dt} \left( \frac{\partial L}{\partial \dot{q}_i} \right) - \frac{\partial L}{\partial q_i} = 0, \quad i = 1, 2, \dots, n \quad (8)$$

which are the Euler-Lagrange equations.

# Goldstein Classical Mechanics Solutions Chapter 8

**Gaetano Assanto**



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**Nematicons** Gaetano Assanto,2012-10-16 The first book of its kind to introduce the fundamentals basic features and models potential applications and novel phenomena and its important applications in liquid crystal technology Recognized leader in the field Gaetano Assanto outlines the peculiar characteristics of nematicons and the promise they have for the future growth of this captivating new field *Schaum's Outline of Lagrangian Dynamics* Dare A. Wells,1967 This book includes 275 solved problems

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### **Table of Contents Goldstein Classical Mechanics Solutions Chapter 8**

1. Understanding the eBook Goldstein Classical Mechanics Solutions Chapter 8
  - The Rise of Digital Reading Goldstein Classical Mechanics Solutions Chapter 8
  - Advantages of eBooks Over Traditional Books
2. Identifying Goldstein Classical Mechanics Solutions Chapter 8
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Goldstein Classical Mechanics Solutions Chapter 8
  - User-Friendly Interface
4. Exploring eBook Recommendations from Goldstein Classical Mechanics Solutions Chapter 8
  - Personalized Recommendations
  - Goldstein Classical Mechanics Solutions Chapter 8 User Reviews and Ratings
  - Goldstein Classical Mechanics Solutions Chapter 8 and Bestseller Lists
5. Accessing Goldstein Classical Mechanics Solutions Chapter 8 Free and Paid eBooks
  - Goldstein Classical Mechanics Solutions Chapter 8 Public Domain eBooks
  - Goldstein Classical Mechanics Solutions Chapter 8 eBook Subscription Services

- Goldstein Classical Mechanics Solutions Chapter 8 Budget-Friendly Options
- 6. Navigating Goldstein Classical Mechanics Solutions Chapter 8 eBook Formats
  - ePub, PDF, MOBI, and More
  - Goldstein Classical Mechanics Solutions Chapter 8 Compatibility with Devices
  - Goldstein Classical Mechanics Solutions Chapter 8 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Goldstein Classical Mechanics Solutions Chapter 8
  - Highlighting and Note-Taking Goldstein Classical Mechanics Solutions Chapter 8
  - Interactive Elements Goldstein Classical Mechanics Solutions Chapter 8
- 8. Staying Engaged with Goldstein Classical Mechanics Solutions Chapter 8
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Goldstein Classical Mechanics Solutions Chapter 8
- 9. Balancing eBooks and Physical Books Goldstein Classical Mechanics Solutions Chapter 8
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Goldstein Classical Mechanics Solutions Chapter 8
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Goldstein Classical Mechanics Solutions Chapter 8
  - Setting Reading Goals Goldstein Classical Mechanics Solutions Chapter 8
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Goldstein Classical Mechanics Solutions Chapter 8
  - Fact-Checking eBook Content of Goldstein Classical Mechanics Solutions Chapter 8
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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