

Homework 3*Instructor: Dr. Thomas Cohen**Submitted by: Vivek Saxena***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.

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A Loxley



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Classical Mechanics Peeter Joot, This is a collection of notes on classical mechanics and contains a few things A collection of miscellaneous notes and problems for my personal independent classical mechanics studies A fair amount of those notes were originally in my collection of Geometric Clifford Algebra related material so may assume some knowledge of that subject My notes for some of the PHY354 lectures I attended That class was taught by Prof Erich Poppitz I audited some of the Wednesday lectures since the timing was convenient I took occasional notes did the first problem set and a subset of problem set 2 These notes when I took them likely track along with the Professor s hand written notes very closely since his lectures follow his notes very closely Some assigned problems from the PHY354 course ungraded not submitted since I did not actually take the course I ended up only doing the first problem set and two problems from the second problem set Miscellaneous worked problems from other sources *The Computation and Theory of Optimal Control* Dyer,1970-05-31 *The Computation and Theory of Optimal Control* *Classical Mechanics: Lecture Notes* Helmut Haberzettl,2021-06-15 This textbook provides lecture materials of a comprehensive course in Classical Mechanics developed by the author over many years with input from students and colleagues alike The richly illustrated book covers all major aspects of mechanics starting from the traditional Newtonian perspective over Lagrangian mechanics variational principles and Hamiltonian mechanics rigid body and continuum mechanics all the way to deterministic chaos and point particle mechanics in special relativity Derivation steps are worked out in detail illustrated by examples with ample explanations Developed by a classroom practitioner the book provides a comprehensive overview of classical mechanics with judicious material selections that can be covered in a one semester course thus streamlining the instructor s task of choosing materials for their course The usefulness for instructors notwithstanding the primary aim of the book is to help students in their understanding with detailed derivations and explanations and provide focused guidance for their studies by repeatedly emphasizing how various topics are tied together by common physics principles classical mechanics herbert goldstein, ph.d.,1959 **Models in Statics for Engineers** Sorin Vlase,Marin Marin,Andreas Öchsner,Maria Luminita Scutaru,2025-07-16 This book covers all the standard introductory topics in classical mechanics for the first part Statics the analysis of forces and moments acting on a mechanical system in equilibrium with its environment Starting from Newton s laws the necessary and sufficient conditions are formulated for a point rigid system to remain in equilibrium The main problems that may arise in engineering practice are analyzed and numerous problems illustrate the presentation It is well known that classical mechanics viewed as a theoretical discipline possesses an inherent beauty depth and richness and presents coherence and elegance This book tries to highlight this beauty and harmony that classical mechanics offers The long experience of the authors means that the way of presentation is intensively tested in the decades of contact with students The textbook is mainly addressed to advanced undergraduate and beginning graduate students who are interested in the engineering application of modern methods in

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