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### **Exams | Physics I: Classical Mechanics | Physics | MIT ...**

The course I took covered Lagrangian and Hamiltonian mechanics and also covered Poisson brackets and the Hamilton-Jacobi formulation. I found the book Introductory Classical Mechanics by David Morin to be useful and have many problems with detailed solutions for it. It was especially useful for the Lagrangian part of the course.

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problems with detailed solutions, and over 350 unworked exercises, this is an ideal supplementary text for all levels of undergraduate physics courses in classical mechanics.

### **Introduction to Classical Mechanics: With Problems and ...**

There are two important alternative formulations of classical mechanics: Lagrangian mechanics and Hamiltonian mechanics. These, and other modern formulations, usually bypass the concept of "force", instead referring to other physical quantities, such as energy, speed and momentum, for describing mechanical systems in generalized coordinates .

### **Classical mechanics - Wikipedia**

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The equations of motion of classical



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mechanics are invariant (do not change) under Galilean transformations. At first, the issue of inertial and noninertial frames is confusing. Rather than grapple with this, we will try to build some intuition by solving mechanics problems assuming we are in an inertial frame.

## **Lecture Notes on Classical Mechanics (A Work in Progress)**

Gregory's Classical Mechanics is a major new textbook for undergraduates in mathematics and physics. It is a thorough, self-contained and highly readable account of a subject many students find difficult. The author's clear and systematic style

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