

Introduction to  
**CLASSICAL  
MECHANICS**  
With Problems and Solutions



DAVID MORIN

CAMBRIDGE

# Morin Mechanics Solutions Manual

**Xiaolong Qi**



## **Morin Mechanics Solutions Manual:**

Introduction to Classical Mechanics David Morin, 2008-01-10 This textbook covers all the standard introductory topics in classical mechanics including Newton's laws oscillations energy momentum angular momentum planetary motion and special relativity It also explores more advanced topics such as normal modes the Lagrangian method gyroscopic motion fictitious forces 4 vectors and general relativity It contains more than 250 problems with detailed solutions so students can easily check their understanding of the topic There are also over 350 unworked exercises which are ideal for homework assignments Password protected solutions are available to instructors at [www.cambridge.org/9780521876223](http://www.cambridge.org/9780521876223) The vast number of problems alone makes it an ideal supplementary text for all levels of undergraduate physics courses in classical mechanics Remarks are scattered throughout the text discussing issues that are often glossed over in other textbooks and it is thoroughly illustrated with more than 600 figures to help demonstrate key concepts

**Problems and Solutions in Introductory Mechanics** David J. Morin, 2014 This problem book is ideal for high school and college students in search of practice problems with detailed solutions All of the standard introductory topics in mechanics are covered kinematics Newton's laws energy momentum angular momentum oscillations gravity and fictitious forces The introduction to each chapter provides an overview of the relevant concepts Students can then warm up with a series of multiple choice questions before diving into the free response problems which constitute the bulk of the book The first few problems in each chapter are derivations of key results theorems that are useful when solving other problems While the book is calculus based it can also easily be used in algebra based courses The problems that require calculus only a sixth of the total number are listed in an appendix allowing students to steer clear of those if they wish Additional details

- 1 Features 150 multiple choice questions and nearly 250 free response problems all with detailed solutions
- 2 Includes 350 figures to help students visualize important concepts
- 3 Builds on solutions by frequently including extensions variations and additional remarks
- 4 Begins with a chapter devoted to problem solving strategies in physics
- 5 A valuable supplement to the assigned textbook in any introductory mechanics course

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