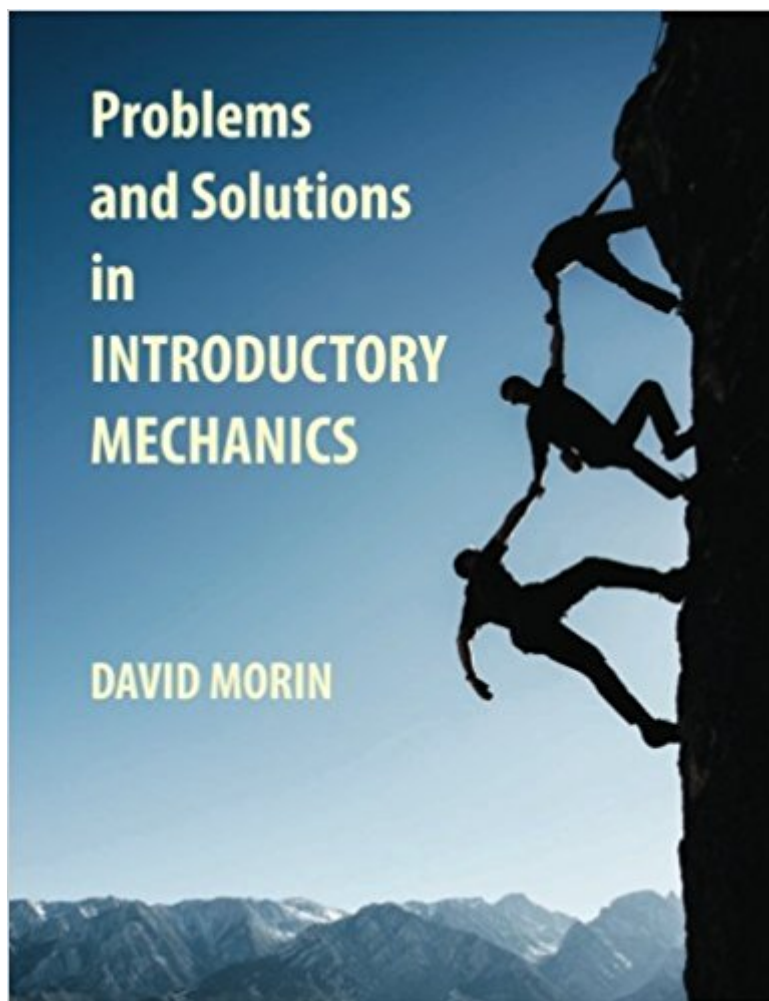




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# Problems And Solutions In Introductory Mechanics



## Synopsis

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/variants 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.

## Book Information

Paperback: 352 pages

Publisher: CreateSpace Independent Publishing Platform; 1 edition (August 14, 2014)

Language: English

ISBN-10: 1482086921

ISBN-13: 978-1482086928

Product Dimensions: 8.5 x 0.8 x 11 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: 4.8 out of 5 stars 15 customer reviews

Best Sellers Rank: #21,025 in Books (See Top 100 in Books) #11 in Books > Science & Math > Physics > Mechanics #19 in Books > Textbooks > Science & Mathematics > Mechanics

## Customer Reviews

David Morin is a Lecturer and the Associate Director of Undergraduate Studies in the Physics Department at Harvard University. He received his A.B. in mathematics from Brown University and his Ph.D. in theoretical particle physics from Harvard University. He is the author of five books, including *Introduction to Classical Mechanics* (Cambridge University Press, 2008), *Electricity and Magnetism* (Cambridge University Press, co-author, 2013), and *Probability: For the Enthusiastic*

Beginner (2016). When not writing textbooks, thinking of physics limericks, or conjuring up new problems whose answers involve  $e$  or the golden ratio, he can be found running along the Charles River or hiking in the White Mountains of New Hampshire. Resources for his books, along with other educational material, can be found on his Harvard webpage.

I placed my order for Dr. Morin's first book on January 1st, 2008 here on . Since then, he has brought E&M by Purcell up to date and now has this book to offer. For \$5.95, it is a must have e-book for any high school student thinking of majoring in physics at college. Dr. Morin started mentoring me in high school, then helped me thrive at MIT. He knows the subject inside and out and conveys that knowledge exceptionally well.

Excellent book, just what I was looking for. Very well written with great examples and problems to solve!

Great book for preparing physics AP1 and USPHO  $F=ma$ !

Good book and excellent service!

About the best I have seen.

This book not only articulates good problem solving strategies (and the reasons for them); but it also has a lot of good conceptual problems (unlike many other books that have solved physics problems). This is one of my favorite physics study guides.

Specific to the kindle edition- the app on nexus 7 has equations that are essentially unreadable. Given that the Nexus has stock android running, it is puzzling as to why the kindle edition was not tested on stock Google devices first. The kindle app for mac and the cloud reader are both fairly readable, so there are workarounds.

Great book...excellent set of problems. Highly recommended for the advanced high school student

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