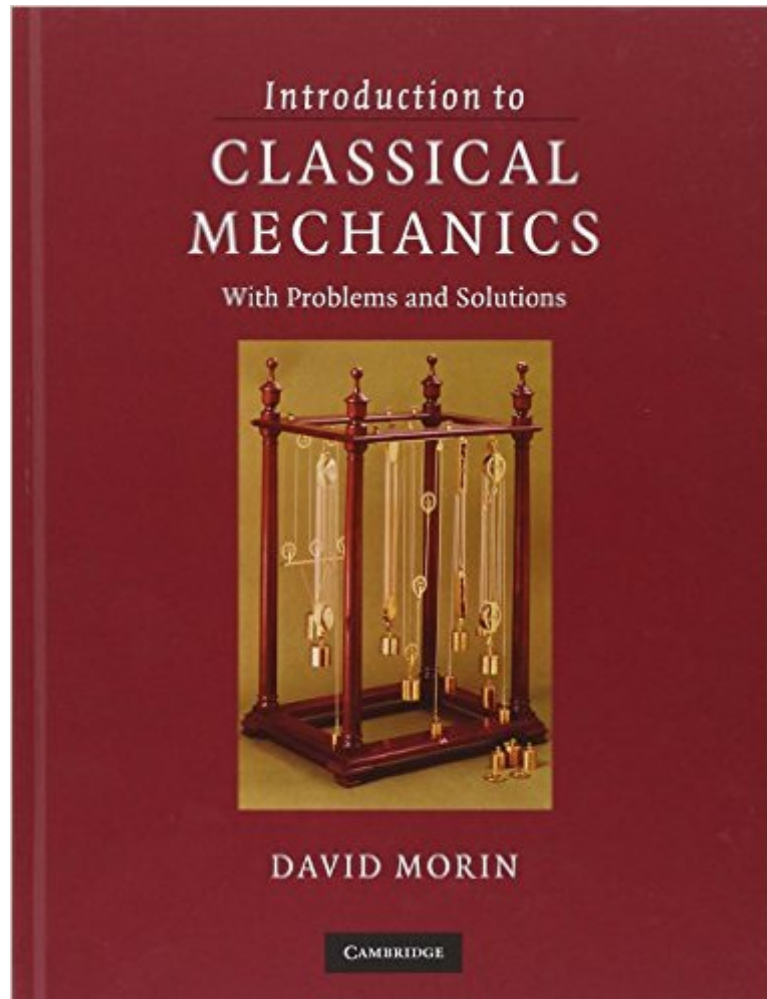


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Introduction To Classical Mechanics: With Problems And Solutions



Synopsis

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. 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.

Book Information

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Customer Reviews

However hard I try, I won't be able to tell you just how outstanding this book is. Books like this do not come often. And when they do, they revolutionize the way I understand, learn and teach physics. For me, this book did to mechanics what Griffith's books did to Electromagnetism and Quantum Mechanics. I originally found this book while I was studying special relativity during the first year of studying natural sciences at the University of Cambridge. I was baffled. Special relativity made no sense. I found this book, and started reading. The first thing that strikes you, as you pick up David Morin's work is how enjoyable his writing is. It's conversational, witty, peppered

with limericks, and generally quite fun (assuming you like physics, that is :-). More to the point, it just makes sense. As I read through the chapter, things suddenly started clicking in ways they never had before (more on that later). But the best part of the book, without a doubt, are its footnotes. Time and time again, I was reading the book and came across a tricky point I didn't quite understand... And nine times out of ten, all I needed to do was look down and find a footnote answering my question. Uncanny at times, I'll admit. In a broader sense, I think the main attraction of this book lies in the fact Morin builds theories from the bottom up. Where other physics books start with disconnected phenomena and covers seemingly disparate rules governing them, Morin begins from the very basic axioms, and builds a shining edifice out of them. And then delights you with endless unexpected applications and consequences of these principles that will fill you with wonder. This is what physics is about, and this is why his book makes much sense. And obviously, the problems!

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