



Classical Mechanics: An Introduction

By Dieter Strauch

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This upper-level undergraduate and beginning graduate textbook primarily covers the theory and application of Newtonian and Lagrangian, but also of Hamiltonian mechanics. In addition, included are elements of continuum mechanics and the accompanying classical field theory, wherein four-vector notation is introduced without explicit reference to special relativity. The author's writing style attempts to ease students through the primary and secondary results, thus building a solid foundation for understanding applications. Numerous examples illustrate the material and often present alternative approaches to the final results.

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Classical Mechanics: An Introduction By Dieter Strauch Bibliography

- Rank: #4426883 in Books
- Brand: Brand: Springer
- Published on: 2009-06-24
- Original language: English
- Number of items: 1
- Dimensions: 9.40" h x 1.20" w x 6.40" l, 1.94 pounds
- Binding: Hardcover
- 405 pages

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Editorial Review

Review

From the reviews:

“This is a textbook on classical mechanics written especially for students specializing in physics. According to the author, the main difference of this textbook from other books on the topic is a strong separation of axioms and fundamentals from various applications and comments on them. The book consists of 10 chapters and 10 appendices Undoubtedly, the book will be useful not only to students and postgraduate students of different specializations, but also to lecturers of universities.” (Sergei Georgievich Zhuravlev, Zentralblatt MATH, Vol. 1185, 2010)

From the Back Cover

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