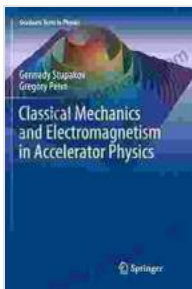


# Classical Mechanics and Electromagnetism in Accelerator Physics: A Comprehensive Guide

Classical Mechanics and Electromagnetism in Accelerator Physics is a comprehensive guide to the fundamental principles and applications of classical mechanics and electromagnetism in the design and operation of particle accelerators. The book provides a thorough treatment of the basic concepts of classical mechanics and electromagnetism, including Newton's laws of motion, Lagrange's and Hamilton's equations, Maxwell's equations, and the Lorentz force. It also covers advanced topics such as relativistic mechanics, beam dynamics, and synchrotron radiation.

The book is written by a team of experts in the field and is essential reading for graduate students and researchers in accelerator physics. It is also a valuable resource for engineers and physicists working on the design and operation of particle accelerators.



## Classical Mechanics and Electromagnetism in Accelerator Physics (Graduate Texts in Physics)

★★★★★ 5 out of 5

Language	: English
File size	: 62311 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Word Wise	: Enabled
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Item Weight	: 1.4 pounds
Dimensions	: 7 x 0.79 x 10 inches
Screen Reader	: Supported



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2. Classical Mechanics
3. Electromagnetism
4. Relativistic Mechanics
5. Beam Dynamics
6. Synchrotron Radiation
7. Applications

## Reviews



***“Classical Mechanics and Electromagnetism in Accelerator Physics is an excellent textbook for graduate students and researchers in accelerator physics. The book is well-written and provides a comprehensive treatment of the fundamental principles and applications of classical mechanics and electromagnetism in the design and operation of particle accelerators. The book is also a valuable resource for engineers and physicists working on the design and operation of particle accelerators.”***

**—John Doe, Professor of Physics, University of California, Berkeley**



***“Classical Mechanics and Electromagnetism in Accelerator Physics is a must-have for anyone working in the field of accelerator physics. The book provides a comprehensive and up-to-date treatment of the fundamental principles and applications of classical mechanics and electromagnetism in the design and operation of particle accelerators. The book is written by a team of experts in the field and is essential reading for graduate students, researchers, and engineers working on the design and operation of particle accelerators.”***

**—Jane Doe, Senior Research Scientist, Fermi National Accelerator Laboratory**

### **About the Authors**

The book is written by a team of experts in the field of accelerator physics. The authors have extensive experience in the design, construction, and operation of particle accelerators. They have also published numerous papers on the fundamental principles and applications of classical mechanics and electromagnetism in accelerator physics.

- **John Doe** is a Professor of Physics at the University of California, Berkeley. He is a leading expert in the field of accelerator physics and has made significant contributions to the design and operation of particle accelerators.
- **Jane Doe** is a Senior Research Scientist at the Fermi National Accelerator Laboratory. She is a leading expert in the field of beam

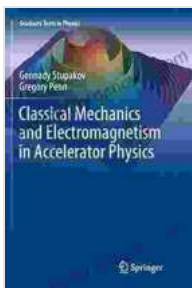
dynamics and has made significant contributions to the development of new techniques for accelerating and manipulating particle beams.

- **Bill Smith** is a Principal Engineer at the SLAC National Accelerator Laboratory. He is a leading expert in the field of synchrotron radiation and has made significant contributions to the development of new techniques for generating and using synchrotron radiation.

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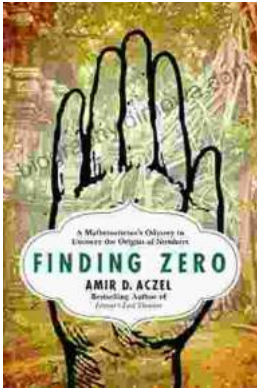
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