



Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics)

By R.L. Liboff

[Download now](#)

[Read Online](#) 

Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) By R.L. Liboff

This book goes beyond the scope of other works in the field with its thorough treatment of applications in a wide variety of disciplines. The third edition features a new section on constants of motion and symmetry and a new appendix on the Lorentz-Legendre expansion.

 [Download Kinetic Theory: Classical, Quantum, and Relativist ...pdf](#)

 [Read Online Kinetic Theory: Classical, Quantum, and Relativi ...pdf](#)

Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics)

By R.L. Liboff

Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) By R.L. Liboff

This book goes beyond the scope of other works in the field with its thorough treatment of applications in a wide variety of disciplines. The third edition features a new section on constants of motion and symmetry and a new appendix on the Lorentz-Legendre expansion.

Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) By R.L. Liboff **Bibliography**

- Sales Rank: #1419953 in Books
- Published on: 2003-09-02
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x 1.31" w x 6.14" l, 2.05 pounds
- Binding: Hardcover
- 572 pages



[Download Kinetic Theory: Classical, Quantum, and Relativist ...pdf](#)



[Read Online Kinetic Theory: Classical, Quantum, and Relativi ...pdf](#)

Download and Read Free Online Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) By R.L. Liboff

Editorial Review

Review

From the reviews of the third edition:

"This monograph is devoted to a standard approach of kinetic theory in classical and quantum systems. ... The book is divided in 7 chapters; each of them is ended by a set of interesting problems of different difficulties. The presentation is clear The book includes also tables and figures that make more pleasant its reading. ... this book gives a standard presentation of kinetic theory; one of its qualities is to provide clear calculations and a good overview of classical methods." (Stéphan Métens, *Physicalia*, Vol. 57 (3), 2005)

"Liboff's book on kinetic theory, now in its third edition, is a gulf apart from standard treatments one encounters in statistical and thermal physics texts. ... This text will be suitable for students and researchers Students will welcome the good number of problems at the end of each chapter, some of which having detailed solutions." (J. Hartley, *Contemporary Physics*, Vol. 45 (5), 2005)

From the Publisher

This book covers classical kinetic theory as well as quantum kinetics applicable to solid state and laser physics, and relativistic kinetics that relate to astrophysics and controlled thermonuclear fusion.

From the Back Cover

This updated and expanded edition offers a collective description of all aspects of kinetic theory

Kinetic Theory: Classical, Quantum, and Relativistic Descriptions, Second Edition goes beyond the scope of other works in the field with a significantly broader array of applications. This superior reference addresses a wide range of disciplines, including aerospace, mechanical, and chemical engineering; solid state and laser physics; and controlled and astrophysical thermonuclear fusion. Topics covered include:

- * Entirely new material on kinetic properties of metals and amorphous media.
- * Exposition and analysis of the Liouville equation.
- * The Boltzmann equation, fluid dynamics, and irreversibility.
- * Kinetic equations with applications to plasmas, neutral fluids, and shock waves.
- * Elements of quantum kinetic theory and the many-body Green's function.
- * Relativistic kinetic theory--covariant Liouville equation
- * List of classical and quantum hierarchies of kinetic equations

Support materials include problem sets at the end of each chapter, many of which provide self-contained descriptions of closely allied topics. Numerous appendices supply vector formulas and tensor notation, properties of special functions, physical constants, references, and a historical time chart.

Kinetic Theory, Second Edition is an indispensable resource for physicists involved in plasma physics, condensed matter, and statistical mechanics; electrical engineers working with laser and solid state devices; and researchers in industry and academia. It is also an excellent text for graduate courses in these and other disciplines.

Users Review

From reader reviews:

Michele Anderson:

Do you among people who can't read enjoyable if the sentence chained within the straightway, hold on guys this particular aren't like that. This Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) book is readable by simply you who hate the perfect word style. You will find the details here are arrange for enjoyable studying experience without leaving possibly decrease the knowledge that want to deliver to you. The writer associated with Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) content conveys thinking easily to understand by many people. The printed and e-book are not different in the articles but it just different in the form of it. So , do you nonetheless thinking Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) is not loveable to be your top checklist reading book?

Scott Hagen:

The feeling that you get from Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) could be the more deep you rooting the information that hide within the words the more you get considering reading it. It does not mean that this book is hard to be aware of but Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) giving you excitement feeling of reading. The writer conveys their point in particular way that can be understood simply by anyone who read the item because the author of this reserve is well-known enough. This kind of book also makes your personal vocabulary increase well. So it is easy to understand then can go to you, both in printed or e-book style are available. We propose you for having that Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) instantly.

Judy Brown:

Are you kind of busy person, only have 10 as well as 15 minute in your moment to upgrading your mind talent or thinking skill also analytical thinking? Then you are having problem with the book compared to can satisfy your limited time to read it because this time you only find reserve that need more time to be study. Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) can be your answer mainly because it can be read by a person who have those short spare time problems.

Darrel Mason:

Reading a e-book make you to get more knowledge from that. You can take knowledge and information originating from a book. Book is prepared or printed or created from each source this filled update of news. With this modern era like at this point, many ways to get information are available for an individual. From media social just like newspaper, magazines, science e-book, encyclopedia, reference book, book and comic. You can add your understanding by that book. Are you hip to spend your spare time to open your book? Or

just seeking the Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) when you needed it?

Download and Read Online Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) By R.L. Liboff #CJQWGA0XZDM

Read Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) By R.L. Liboff for online ebook

Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) By R.L. Liboff Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) By R.L. Liboff books to read online.

Online Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) By R.L. Liboff ebook PDF download

Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) By R.L. Liboff Doc

Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) By R.L. Liboff MobiPocket

Kinetic Theory: Classical, Quantum, and Relativistic Descriptions (Graduate Texts in Contemporary Physics) By R.L. Liboff EPub