



# Fundamentals of Plasma Physics

By J. A. Bittencourt

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**Fundamentals of Plasma Physics** is a general introduction designed to present a comprehensive, logical and unified treatment of the fundamentals of plasma physics based on statistical kinetic theory, with applications to a variety of important plasma phenomena. Its clarity and completeness makes the text suitable for self-learning and for self-paced courses.

Throughout the text the emphasis is on clarity, rather than formality, the various derivations are explained in detail and, wherever possible, the physical interpretations are emphasized. The mathematical treatment is set out in great detail, carrying out the steps which are usually left to the reader. The problems form an integral part of the text and most of them were designed in such a way as to provide a guideline, stating intermediate steps with answers.

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## Fundamentals of Plasma Physics By J. A. Bittencourt Bibliography

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## **Editorial Review**

Review

From the reviews of the third edition:

"This is an excellent introductory textbook of plasma physics, especially recommendable to those starting the study of the subject. ... the book is an immense monography of 678 pages. Our impressions are good ... ." (Iván Abonyi, Zentralblatt MATH, Vol. 1084, 2006)

From the Back Cover

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The book is intended primarily for advanced undergraduate and first year graduate students meeting the subject of plasma physics for the first time and is suitable for those who have taken classical mechanics, electrodynamics and mathematics beyond sophomore level.

It is a valuable compendium for any serious student of plasma physics at the level of research student or research worker and it is also of interest to researchers in other related fields, such as space physics and applied electromagnetism.

About the Author

## **Users Review**

**From reader reviews:**

**Karen Strickland:**

Do you have favorite book? For those who have, what is your favorite's book? Reserve is very important thing for us to be aware of everything in the world. Each reserve has different aim or goal; it means that book has different type. Some people sense enjoy to spend their time and energy to read a book. They are reading

whatever they acquire because their hobby will be reading a book. Why not the person who don't like reading a book? Sometime, man feel need book whenever they found difficult problem or perhaps exercise. Well, probably you'll have this Fundamentals of Plasma Physics.

**Wanda Leopard:**

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**Beth Ritchey:**

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