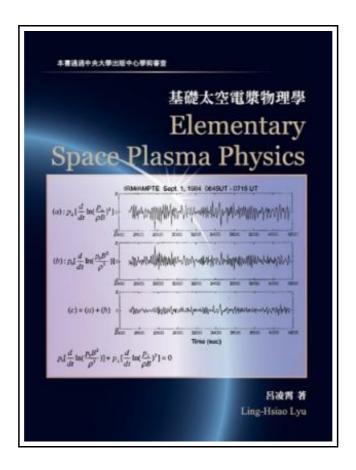
Elementary Space Plasma Physics



Filesize: 7.22 MB

Reviews

The most effective pdf i ever read. it absolutely was writtern extremely flawlessly and useful. I am very easily will get a pleasure of reading through a published book.

(Prof. Vidal Ledner)

ELEMENTARY SPACE PLASMA PHYSICS



Airiti Lab., Taiwan, Province of China, 2010. Paperback. Book Condition: New. 276 x 208 mm. Language: English. Brand New Book ***** Print on Demand *****.The characteristic scale lengths of various space plasma phenomena range from the electron inertial length to the magnetohydrodynamic (MHD) scale length. The MHD plasma model in the space physics is like the geostrophic-wind approximation in the atmospheric physics. Both of them have the limitation in their applications. One of the important goals of this book is to show the students how scientists obtain the governing equations of a given plasma model and what assumptions have been made to obtain the set of governing equations shown in the literatures. We believe that, unless the students know how to derive the governing equations and how to obtain the wave mode from a simplified linear dispersion relation, it will be difficult for the students to fully understand the limitations of a given plasma model and to apply the right model for the observed phenomena. The basic equations of the kinetic plasma, the ion-electron two-fluid plasma, and the one-fluid plasma are derived at the beginning of this book. They are followed by the examinations of linear-wave dispersion relations in the ion-electron two-fluid plasma and in the one-fluid MHD plasma. The linear-wave dispersion relations in the kinetic plasma are presented at the end of this book. Because understanding the particle trajectories in the phase space are essential to the study of the waveparticle interactions in the kinetic plasma, the multiple-time-scale particle motions are examined before studying the linear-wave dispersion relations in the kinetic plasma. This book is written for a two-semester graduate course. It contains only the fundamental subjects in the plasma physics. Thus, an instructor can easily cover the entire book in two semesters. The basic equations derive in Chapters...



Read Elementary Space Plasma Physics Online Download PDF Elementary Space Plasma Physics

You May Also Like



Read Write Inc. Phonics: Yellow Set 5 Storybook 7 Do We Have to Keep it?

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 211 x 101 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read...

Read Document »



Read Write Inc. Phonics: Green Set 1 Non-Fiction 2 We Can All Swim!

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 217 x 115 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books...

Read Document »



Daddyteller: How to Be a Hero to Your Kids and Teach Them What's Really by Telling Them One Simple Story at a Time

Createspace, United States, 2013. Paperback. Book Condition: New. 214 x 149 mm. Language: English . Brand New Book ***** Print on Demand *****. You have the power, Dad, to influence and educate your child. You can...

Read Document »



If I Have to Tell You One More Time: the Revolutionary Program That Gets Your Kids to Listen without Nagging, Reminding or Yelling

Tarcher/Putnam,US, United States, 2012. Paperback. Book Condition: New. 206 x 137 mm. Language: English . Brand New Book. The Revolutionary Program That Gets Your Kids To Listen Without Nagging, Reminding, or Yelling Why does it...

Read Document »



Environments for Outdoor Play: A Practical Guide to Making Space for Children (New edition)

SAGE Publications Ltd. Paperback. Book Condition: new. BRAND NEW, Environments for Outdoor Play: A Practical Guide to Making Space for Children (New edition), Theresa Casey, 'Theresa's book is full of lots of inspiring, practical, 'how...

Read Document »