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The Kinetic Theory of Inert Dilute Plasmas

By Leonardo Dagdug

Springer. Hardcover. Book Condition: New. Hardcover. 166 pages. Dimensions: 9.5in. x 6.3in. x 0.7in. The contents of this book are the result of work performed in the past three years to provide some answers to questions raised by several colleagues working in astrophysics.

Examining several transport processes in plasmas related to dissipative effects in phenomena such as cooling flows, propagation of sound waves, thermal conduction in the presence of magnetic fields, and angular momentum transfer in accretion disks, among many, one finds a rather common pattern. Indeed when values for transport coefficients are required the overwhelming majority of authors refer to the classical results obtained by L. Spitzer and S. Braginski over forty years ago. Further, it is also often mentioned that under the prescribed working conditions the values of such coefficients are usually insufficient to provide agreement with observations. The methodology followed by these authors is based upon Landau's pioneering idea that collisions in plasmas may be substantially accounted for when viewed as a diffusive process. Consequently the ensuing basic kinetic equation is the Fokker-Planck version of Boltzmann's equation as essentially proposed by Landau himself nearly 70 years ago. Curiously enough the magnificent work of the late R. Balescu in both Classical and Non-Classical transport in...



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