



An Introduction to the Theory of Plasma Turbulence: International Series of Monographs in Natural Philosophy

V. N. Tsytovich

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An Introduction to the Theory of Plasma Turbulence is a collection of lectures given by the author at Culham laboratory.

The book deals with developments on the theory of plasma turbulence. The author describes plasma properties in the turbulent regions as mostly non-linear in nature, and notes that these properties can be regarded as a universal spectrum independent of any type of instability. The text then discusses the general problems of the theory of plasma turbulence. The author also shows that elementary excitation of "dressed" particles have a finite lifetime associated with non-linear interactions.

The book then discusses the excitation of ion-sound turbulence using different processes, for example, shock waves; the text also analyzes the kind of non-linear interactions present in such energy transfer. The author also explains the Langmuir plasma oscillations - a typical collective plasma motion that can be excited using different types of mechanism such as an electron beam. The book then describes the electromagnetic properties of turbulent plasma and relates the state of turbulent plasma as a natural occurrence in the universe. The book notes the problem of cosmic rays, not as an energy transfer to faster particles, but as an energy distribution between particles.

The text will prove valuable for nuclear physicists, scientists, and academicians in the field of quantum mechanics.

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