



## The Guiding Center Plasma, Vol. 18 (Classic Reprint) (Paperback)

By Harold Grad

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Excerpt from The Guiding Center Plasma, Vol. 18 Perhaps the single feature which dominates the landscape in any view of plasma physics is the complexity arising from the large number of simultaneous and interfering phenomena [as compared to the relative simplicity of the related classical disciplines of fluid dynamics, kinetic theory, electromagnetic theory]. We cannot expect the growth, even ultimately, of a significant quantitative theory using substantial mathematical tools which will embrace an appreciable part of the physics and at the same time incorporate a nontrivial geometry. One type of model allows the use of significant linear techniques (essentially Fourier analysis enhanced by asymptotics) to describe a relatively large amount of physics by remaining within the realm of trivial geometries such as an infinite homogeneous plasma, possibly with a superposed small linear macroscopic gradient. We shall be concerned with a model of a second type containing somewhat less physics but aimed at the exploitation of more elaborate mathematical tools in more practical geometrical configurations. The prime example of the latter type of model is given by potential...

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