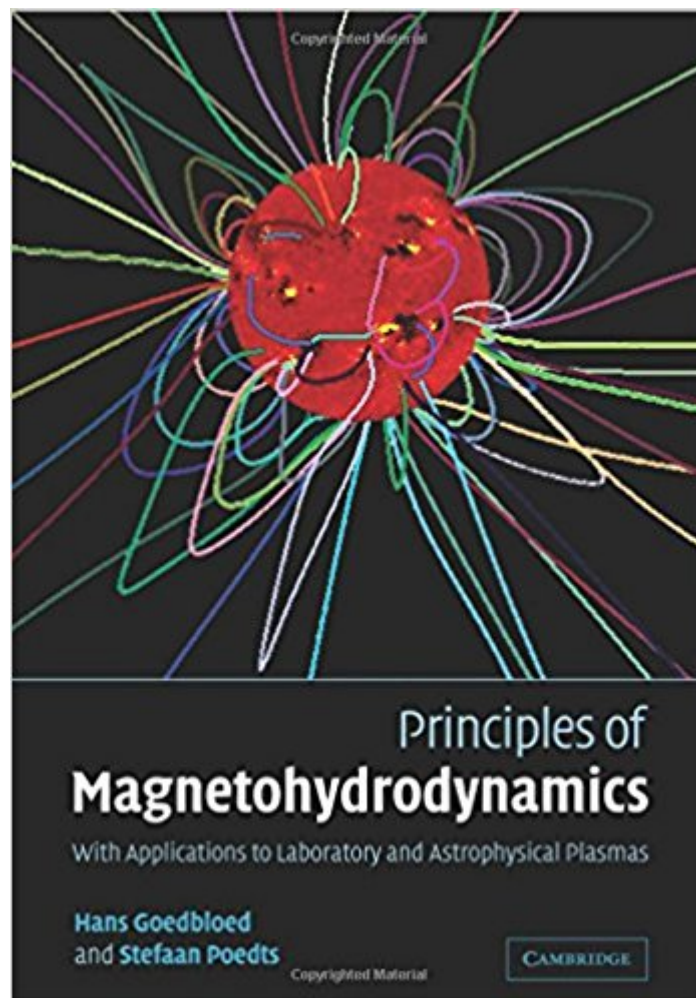




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# Principles Of Magnetohydrodynamics: With Applications To Laboratory And Astrophysical Plasmas



## Synopsis

This volume describes the two main applications of plasma physics--laboratory research on thermo-nuclear fusion energy and plasma astrophysics of the solar system and stars and accretion disks--from the single viewpoint of magnetohydrodynamics (Mhd). This approach provides effective methods and insights for the interpretation of plasma phenomena on virtually all scales, ranging from the laboratory to the universe. The text will be of value to senior-level undergraduates and graduate students in physics, astrophysics and magnetohydrodynamics.

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This book describes the two main applications of plasma physics, laboratory research on thermo-nuclear fusion energy and plasma astrophysics of the solar system, stars and accretion

disks, from the single viewpoint of magnetohydrodynamics (MHD). This approach provides effective methods and insights for the interpretation of plasma phenomena on virtually all scales, ranging from the laboratory to the universe. This text will be of value to senior-level undergraduates and graduate students in departments of physics and astrophysics taking courses on magnetohydrodynamics.

If you need a primer on magnetohydrodynamics (MHD) that is still in print, this is probably the best book you can get.

I am having this book as a textbook in a Space Plasma Physics Course. It is outstanding, and very helpful. I highly recommend it.

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