

## Engineering Magnetohydrodynamics

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Suitable for advanced undergraduates and graduate students in engineering, this text introduces the concepts of plasma physics and magnetohydrodynamics from a physical viewpoint. The first section of the three-part treatment deals mainly with the properties of ionized gases in magnetic and electric fields, essentially following the microscopic viewpoint.

*Engineering Magnetohydrodynamics - Dover*

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Magnetohydrodynamics (MHD) is a combination of fluid mechanics and electromagnetics concerned with the motion of electrically-conducting liquids and gases in the presence of a magnetic field. Examples of technical applications are electric power generation, electromagnetic pumping and propulsion as well as control of moving molten metals.

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*Magnetohydrodynamics - Wikipedia*

Suitable for advanced undergraduates and graduate students in engineering, this text introduces the concepts of plasma physics and magnetohydrodynamics from a physical viewpoint. The first section of the three-part treatment deals mainly with the properties of ionized gases in magnetic and electric fields, essentially following the microscopic viewpoint.

*Engineering Magnetohydrodynamics by George W. Sutton ...*

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In addition, he earned a Master of Science and Doctor of Philosophy in Aerospace Engineering from the Georgia Institute of Technology in May 2015 and August 2019, respectively. Hisham's current research interests are in space systems, magnetohydrodynamics, hypersonics, and plasma physics.

*Seminar: Magnetohydrodynamics and Planetary Entry - Nov. 6 ...*

MAGNETOHYDRODYNAMICS by M. S. Tillack and N. B. Morley The authors wish to acknowledge the generous extraction of material on gaseous MHD power generation from the previous edition, authored by John C. Cutting.

*MAGNETOHYDRODYNAMICS*

A finite-difference study of a steady, incompressible, viscous, magnetohydrodynamic (MHD) channel flow which has direct application to dc electromagnetic pumps is presented. The study involves the numerical solution of the coupled Navier–Stokes and Maxwell equations at low magnetic Reynolds numbers. It is shown that the axial velocity profiles have a characteristic M shape as the fluid ...

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Engineering Aspects of Magnetohydrodynamics.Proceedings of the third annual symposium (Rochester, N.Y.), March 1962. Norman W. Mather and George W. Sutton, Eds ...

*Engineering Aspects of Magnetohydrodynamics. Proceedings ...*

An introduction to engineering magnetohydrodynamics, this brief focuses heavily on the design of thermo-magnetic systems for liquid metals, with emphasis on the design of electromagnetic annular linear induction pumps for space nuclear reactors. Alloy systems that are liquid at room temperature have a high degree of thermal conductivity far ...

*Thermo-Magnetic Systems for Space Nuclear Reactors: An ...*

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