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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.

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In addition, he earned a Master of Science and Doctor of Philosophy in Aerospace Engineering from the

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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.

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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.

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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 ...

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