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	Autore	MCLEAN, B.H.
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2.	Record Nr.	UNINA9910781411403321
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	Pubbl/distr/stampa	New York, : American Institute of Aeronautics and Astronautics, c1985
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	Altri autori (Persone)	BranoverHerman <1931-> LykoudisP. S <1926-> (Paul S.) MondMichael
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Nota di contenuto	<p>""Cover""; ""Title""; ""Copyright""; ""Table of Contents""; ""Preface""; ""Chapter I. Laminar MHD Flows""; ""Laminar Duct Flows in Strong Magnetic Fields""; ""Approximate Side Layer Solutions for a Liquid Metal Flow in a Rectangular Duct with a Strong Nonuniform Magnetic Field""; ""Applications of MHD Flows Between Rotating Disks""; ""Unsteady Magnetoaerodynamic Supersonic Flows Past Oscillating Thin Bodies and Lifting Surfaces""; ""Chapter II. MHD and HD Turbulence""; ""Two-Dimensional Behavior of Electrically Driven Flows at High Hartmann Numbers""</p> <p>""Transition from Three-Dimensional to Quasi-Two-Dimensional MHD Grid Turbulence""""Direct Numerical Simulation of Two-Dimensional Turbulence""; ""Experiments in Duct Flows with Reversed Turbulent Energy Cascades""; ""Direct Numerical Simulation of Three-Dimensional Convection in Liquid Metals""; ""Magneto-Fluid-Mechanic Turbulent Vortex Streets""; ""Numerical Simulation of Homogeneous Turbulence Submitted to Two Successive Plane Strains and to Solid Body Rotation""; ""Sensitivity of Turbulent Channel Flow to the Interactions at the Perimeter""</p> <p>""Electrodynamic and Kinetic Phenomena in Diffuse Electrical Discharges in Turbulent Gas Flows""""Homotopic Structural Invariants in HD and MHD Turbulence""; ""Chapter III. Two-Phase Flows""; ""Liquid Metal Magneto-Fluid-Mechanic Turbulence""; ""Bubble Growth in a Superheated Liquid Metal in a Uniform Magnetic Field""; ""Analysis of Two-Phase MHD Flow in Converging-Diverging Ducts""; ""Stability of Two-Phase Liquid Metal MHD Channel Flow""; ""An Analytical Model for Bubbly Flow""; ""Computer Modeling for Single-Phase Reacting Flow Patterns""</p> <p>""Two-Phase Flow Measurement Using a Modified Laser Doppler Anemometry System""""Chapter IV. MHD Power Generation and Application to Fission and Fusion Reactors""; ""Liquid Metal MHD Power Generationa€œIts Evolution and Status""; ""Tin-Water Faraday Generator""; ""The ETGAR Liquid Metal MHD Project""; ""Investigation of a Lithium-Caesium Faraday Converter""; ""The Feasibility of Remote Power Generation Based on LMMHD and Biomass Energy""; ""Interaction of Hall Currents and Turbulent Boundary Layers in Closed-Cycle MHD Experiments""; ""Streamer Dynamics in MHD Generators""</p> <p>""Magneto-Fluid-Dynamic Issues for Fusion First-Wall and Blanket Systems""""Experiments on a Large Thin-Wall Duct""; ""Demonstration of Flow Couplers for the LMFBF""; ""Disk Generator Performance Prospects""; ""High-Temperature Liquid Metal MHD Solar Thermal Systems""; ""Chapter V. Metallurgical Applications""; ""Metallurgical Applications of MHD""; ""Current Paths and MHD in Vacuum Arc Remelting""; ""Electromagnetic Modelization of Cold Crucibles""; ""Shaping of Liquid Metal Cylinders""; ""Shield Effects in Continuous Electromagnetic Casting""</p> <p>""Investigation of the Turbulent Flow in an Induction Furnace Supplied with Various Frequencies""</p>