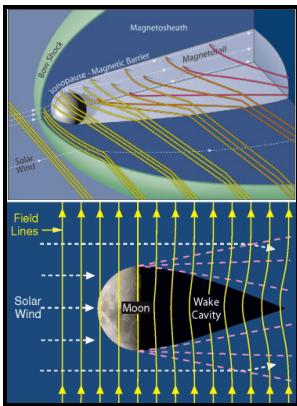


On the diffusion of a conducting fluid across a magnetic field

New York University, AEC Computing and Applied Mathematics Center - Magnetic diffusion



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Magnetic Diffusion

Velocity measurements are required to quantify the action of the Lorentz forces on the flow.

Magnetic Diffusion

In particular, the strength of the axial dipole coefficient of the field is so dominant at the Earth's surface where the geomagnetic field is observed that the action of diffusion on this field component may be the most important diffusional element in the observed secular variation. This property accounts for the significance of the core—mantle topography.

Magnetic Diffusion

These can divide the fluid into magnetic domains, inside of which the currents are relatively weak. The experimental growth rate below the onset of dynamo action determined by the study of an imposed external magnetic field is also very close to the appropriate prediction of 2-D kinematic dynamo calculations cf.

Mixed Convection Three

Practically, combined effects of these parameters are significantly important in numerous engineering and industrial processes. The maximum reconnection rate is 7. Eventually, after a complete circuit, two toroidal loops will be formed, as shown in the diagram.

ShieldSquare

Voorhies argued that part of the secular variation that must be explained by nonsteady flows is small, particularly in comparison with errors resulting from neglect of other effects such as diffusion or a noninsulating mantle.

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