

**He, Ji-Huan**

**A variational principle for magnetohydrodynamics with high Hartmann number flow.** (English) [Zbl 1211.76145](#)

*Int. J. Eng. Sci.* 40, No. 12, 1403-1410 (2002).

Summary: By the semi-inverse method, a variational principle is established for three-dimensional MHD equations with high Hartmann number. In order to incorporate the no-slip condition and far distance boundary condition as natural boundary conditions, a special technique is proposed in this paper. Lagrange crisis are also illustrated.

**MSC:**

**76W05** Magnetohydrodynamics and electrohydrodynamics

**76M25** Other numerical methods (fluid mechanics) (MSC2010)

**76M30** Variational methods applied to problems in fluid mechanics

Cited in **3** Documents

**Full Text:** [DOI](#)

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