

Crouzeix, M.

Variational approach of a magnetic shaping problem. (English) Zbl 0741.76089

Eur. J. Mech, B 10, No. 5, 527-536 (1991).

Summary: For a problem of electromagnetic casting in the absence of surface tension, we make a study of the minimization of an energy functional. We prove the existence and global Lipschitz-continuity of a magnetic potential which minimizes this functional.

MSC:

76W05 Magnetohydrodynamics and electrohydrodynamics

76M30 Variational methods applied to problems in fluid mechanics

Cited in **13** Documents

Keywords:

electromagnetic casting; minimization; energy functional; existence; global Lipschitz-continuity; magnetic potential