Axiomata sin Seas Motûs



Friedrich-Alexander-Universität Erlangen-Nürnberg

Seminar über Fragen der Mechanik

zu folgendem Vortrag wird herzlich eingeladen

Dienstag, 19.01.2010, 14:00 Uhr, Egerlandstr. 5, Raum 0.044

A variational formulation for a magneto sensitive body interacting with a rigid semi-infinite body, and some restrictions for the total energy function

Prof. Roger Bustamante

Department of Mechanical Engineering, Universidad de Chile, Santiago, Chile

This talk will be devoted to two different topics:

- On the first part we present some results concerning a variational formulation for a magneto-sensitive body, which is interacting with a rigid semi-infinite body. These two bodies are surrounded by free vacuum space. In a first approximation we assume they are perfectly attached, and the rigid semi-infinite body is magnetizable.
- On the second part of this talk, we discuss about a simple method we can use to find some restrictions on the total energy function, which has been used to model the behaviour of magneto-sensitive elastomers. These constitutive restrictions are inequalities based on the well know Baker-Ericksen inequality for isotropic materials.

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