

## عنوان مقاله:

On Exchange of Stabilities in Ferromagnetic Convection in a Rotating Ferrofluid Saturated Porous Layer

## محل انتشار:

دوماهنامه مکانیک سیالات کاربردی، دوره 7، شماره 1 (سال: 1393)

تعداد صفحات اصل مقاله: 8

## نویسنده:

J. Prakash - *Department of Mathematics, Himachal Pradesh University, Summer Hill, Shimla-171005, India*

## خلاصه مقاله:

In the present paper, first of all, it is proved that the 'principle of the exchange of stabilities' is not, in general valid, for the case of free boundaries and then a sufficient condition is derived for the validity of this principle in ferromagnetic convection, for the case of free boundaries, in a horizontal ferrofluid saturated porous layer in the presence of a uniform vertical magnetic field and uniform rotation about the vertical axis.

## کلمات کلیدی:

Ferrofluids, Principle of exchange of stabilities, Porous medium, Viscosity ratio, Rotation

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1385157>

