

Magnetohydrodynamics 57, 2 (2021)

GENERAL AND THEORETICAL PROBLEMS

<u>C. Jiménez</u> , <u>L. Pérez</u> and <u>R. Correa</u> . Shear coefficient of spin viscosity estimation through velocity profiles of a ferrofluid under the effect of an external rotating magnetic field of low amplitude and frequency	139
<u>D. I. Merkulov</u> , <u>D. A. Pelevina</u> , <u>V. A. Turkov</u> and <u>V. A. Naletova</u> . Experimental research of viscoelastic properties and stress relaxation of magnetizable elastomers	161
Experimental observation of metal-electrolyte interface stability in a model of liquid metal battery	171
<u>V. V. Sokolov</u> and <u>A. D. Kurilov</u> . Absorption of ultrasound by a magnetic fluid in a rotating magnetic field	181
<u>A. V. Proskurin</u> and <u>A. M. Sagalakov</u> . A simple scenario of the laminar breakdown in liquid metal flows	191

APPLIED PROBLEMS

<u>I. A. Belyaev</u> , <u>N. Yu. Pyatnitskaya</u> , <u>N. A. Luchinkin</u> , <u>D. Krasnov</u> , <u>Yu. B. Kolesnikov</u> , <u>Ya. I. Listratov</u> , <u>I. S. Mironov</u> , <u>O. Zikanov</u> and <u>E. V. Sviridov</u> . Flat liquid metal jet affected by a transverse magnetic field	209
<u>V. Dolgikh</u> and <u>A. Pavlinov</u> . Experimental investigation of the MHD pump with inclined partitions in a flat straight channel	221
<u>Yu. Kolesnikov</u> and <u>H. Kalis</u> . Electrically driven cylindrical free shear flows under an axial uniform magnetic field	227
<u>J. Gupta</u> , <u>M. K. Singla</u> and <u>P. Nijhawan</u> . Magnetohydrodynamic system -- a need for a sustainable power generation source	249
<u>O. N. Labkovich</u> , <u>S. G. Pogirnitskaya</u> and <u>V. A. Chernobay</u> . Influence of carbon nanotubes on the dissipation of disturbances in a magnetic fluid layer	271