

## CONTENTS LIST

### JOURNAL OF ENGINEERING PHYSICS

Volume XVIII, No. 6

June, 1970

(Published in the U.S.S.R. in Russian with English abstracts)

	<i>Page</i>
G. V. VINOGRADOV, E. A. DZYURA and A. YA. MALKIN: Visco-elastic properties of amorphous polymers in high-elastic state depending on the nature and length of polymer chain	965
A. V. LUIKOV, Z. P. SHULMAN, R. G. GORODKIN and A. D. MATSEPURO: Mechanic behaviour of electro-viscous nonaqueous disperse systems in a shear flow in a transverse electric field	979
A. I. ISAEV, YU. G. YANOVSKY, G. V. VINOGRADOV and L. A. GORDIEVSKY: Mechanic properties of disperse systems at cyclic deformation with different amplitudes	987
YU. F. DEINIGA: Some problems of disperse system electrorheology	994
S. S. KUTATELADZE, E. M. KHABAKHPASHEVA, V. I. POPOV, I. M. GRUZDEVA and B. V. PEREPELTSIA: Hydraulic resistance and heat transfer of a stabilized non-Newtonian fluid flow	1000
A. V. LUIKOV, Z. P. SHULMAN, N. A. POKRYVAILO, V. I. KORDONSKY and E. B. KABERDINA: Rheodynamics and mass transfer of a disk rotating in non-Newtonian fluid	1010
YU. I. SHMAKOV and E. YU. TARAN: Structural and continual approach in polymer material rheology	1019
A. KH. MIRZADZHANZADE: Motion of two-phase systems in porous media with regard for heat and mass transfer	1025
K. D. VACHAGIN, M. G. SAIFULIN and G. V. VINOGRADOV: Theory of non-Newtonian fluid filtration through porous media	1032
R. S. GURBANOV: Filtration of non-Newtonian systems	1038
N. W. TYABIN and S. A. TRUSOV: Theory of visco-elastic-plastic flow	1044
V. G. LITVINOV: Some problems of nonlinear visco-elastic fluid dynamics	1053
Z. P. SHULMAN and E. A. ZALZGENDLER: Convective heat transfer of unsteady-state Maxwellian fluid flow between parallel planes	1061
S. A. BOSTANDZHIAN, V. I. BOYARCHENKO and G. N. KARGOPOLOVA: Anomalous-viscous flow between two coaxial cylinders under complex shear	1069
A. KH. KIM: Steady-state isothermal flow of visco-plastic system in noncircular bend	1077
YU. F. IVANYUTA and L. A. CHEKALOVA: Experimental study of a turbulent flow of low-concentration polymer solutions in a tube	1085
E. M. KHABAKHPASHEVA and B. V. PEREPELTSIA: Peculiarities of wall turbulence in water flows with high-polymer additives	1094
S. A. BOSTANDZHIAN: Axial laminar visco-plastic flow in an annular tube	1098
P. V. TSOI and SH. NURIDDINOV: Heat transfer of non-Newtonian fluid flow	1107
A. M. MAKAROV, K. B. PAVLOV and S. L. SIMKHOVICH: The Monte-Carlo method applied to solution of unsteady problems of visco-plastic media hydrodynamics	1116
E. F. KURGAEV: Laws of fluidized bed of solid particles	1122
V. K. BENZAR: Determination of moisture content of capillary-porous materials by adsorption of super-high frequency radio-waves	1131
YU. M. MATSEVITY: Electric simulation of radiant heat transfer problems	1137
Contents of the <i>Journal of Engineering Physics</i> , vol. 18 (1970)	1143