

Contents

Thermal physics and thermology

- 6 Investigation of the temperature distribution in a heterogeneous reservoir during fluid filtration, taking into account thermodynamic effects
Suleimanova, M. D., Sharafutdinov, R. F., & Kanafin, I. V.
- 22 Numerical simulation of the water-ice phase transition in highly permeable water-saturated porous media
Simonov, O. A., & Filimonova, L. N.
- 39 Reconstruction of the power supply system based on an alternative energy source
Polovnikova, L. B.
- 60 The study of heat exchange processes during induction heating of the casing string in relation to the determination of behind-the-casing flows
Davletshin, F. F., Islamov, D. F., Khabirov, T. R., Gayazov, M. S., & Nizaeva, I. G.

Fluid, plasma, and gas mechanics

- 78 Simulation of blocking of hydraulic fracture near injector in a reservoir simulator
Shevelev, A. P., Gilmanov, A. Ya., & Kasperovich, A. M.

Mathematical modeling, numerical methods, and software systems. Information technologies

- 92 Mathematical modeling of a new method for processing a seismic signal on the example of a section of the Saratov right bank. Part 1
Fonin, A. A., Suchkov, S. G., Nikolayevtsev, V. A., & Mikheyev, S. I.
- 107 Influence of noisy input data in accuracy of well interference coefficients by linear regression method
Ganopolskij, R. M.
- 116 Differential-difference systems in the analysis of weak solvability of initial-boundary value problems with a spatial variable in a network-like domain
Hoang, V. N., & Provotorov, V. V.
- 139 Composite structure of the magnesium ball valve element for a drilling well
Loginov, Yu. N., & Zamaraeva, Yu. V.
- 153 Contents for 2022