

Contents

Thermal physics and thermology

- 6 Simulation of the thermal field in reservoir during the filtration of live oil and water with considering the heat of oil degassing and thermodynamic effects
Sharafutdinov, R. F., Valiullin, R. A., Babanazarov, D. I., & Kanafin, I. V.
- 19 Secondary crushing of droplets of water-oil emulsions
Shlegel, N. E., & Klimenko, A.
- 41 Solution one-dimensional problems of heat conduction with convection using Poisson integral
Ganopolskij, R. M.
- 55 Simulation of heat stabilizer with a distributed refrigerant supply to the outer surface
Gilmanov, A. Ya., Kim, A. S., & Shevelev, A. P.

Fluid, plazma, and gas mechanics

- 72 Investigation of the processes of additional oil displacement by nanosuspension silicon oxide from a model core
Zhigarev, V. A., Minakov, A. V., Guzei, D. V., & Pryazhnikov, M. I.
- 88 Experimental study of dynamic pressure disturbances in cylindrical pipes filled with liquid
Ulikanov, R. R., Kireev, V. N., & Kovaleva, L. A.
- 104 Mathematical modeling of thermal impact on a closed hydrate-saturated reservoir
Musakaev, N. G., Borodin, S. L., & Khojimirzaev, Sh. Sh.

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

- 121 Automated depth matching of heterogeneous well logs using cross-correlation method
Eremeev, V. V., & Ivashko, A. G.
- 138 Algorithm for automatic extraction of tectonic fault planes from the resulting probability cubes of machine learning models
Kanonirov, A. P., & Zakharov, A. A.

Development and operation of oil and gas fields

- 155 Method for assessing well interference at under-gas cap zone using CRM material balance model
Bekman, A. D., & Ruchkin, A. A.
- 174 Contents for 2023