

CONTENTS

**THERMAL PHYSICS
AND THERMOLOGY**

- Davletshin F. F., Sharafutdinov R. F.
**Investigation of the non-stationary
temperature field in a reservoir
with a hydraulic fracturing
based on an analytical model**8

- Ramazanov A. Sh., Islamov D. F.
**Analytical model of convective
temperature recovery
in shut-in well**25

- Polovnikova L. B., Polovnikov B. D.
**Improving energy efficiency
and energy saving
at the Purtazovskaya
industrial site of LLC “Gazprom
Transgaz Surgut”**41

- Antonova E. O., Rydalina N. V.,
Stepanov O. A., Aksenov B. G.
**Study of the heat-carrying
fluid temperature influence
in the heat supply system
on the indoor air temperature.....**53

**FLUID, PLAZMA,
AND GAS MECHANICS**

- Gilmanov A. Ya., Demenchuk M. A.,
Shevelev A. P.
**Determination of unit parameters
with selective membranes.....**71

- Semikhina L. P., Korovin D. D.
**Entropy influence on the dependence
of the nanofluids viscosity
on temperature and shear rate**89

**MATHEMATICAL MODELING,
NUMERICAL METHODS
AND SOFTWARE SYSTEMS.
INFORMATION TECHNOLOGIES**

- Beckman A. D.
**New method for splitting production
and injection in joint wells
using modified CRM model.....**106

- Nikashkin A. M., Klimov A. A.
**Application of a multidimensional
deterministic-statistical numerical
correlation model to refine
the structure of the AS11 horizon
of the Zapadno-Kamyanskoye field.....**123

- Sheinkman V. S., Simonov O. A.,
Erina Yu. Yu.
**Numerical simulation
of thermoluminescence
quartz particle**136

- Gavrilova N. M., Plotonenko Yu. A.,
Stupnikov A. A.
**Developing intelligent software
for computing parallelization
research**152