

## LIST

of main scientific and methodical works  
of doctor of physical and mathematical sciences, professor  
Sheretov Yurii Vladimirovich

### Monographs and textbooks

1. Sheretov Yu.V. *Mathematical Modeling of Fluid and Gas Flows on the Base of Quasi-Hydrodynamic and Quasi-Gas-Dynamic Equations*. Tver: Tver State University, 2000. 235 p. (in Russian).
2. Sheretov Yu.V. *Mathematical Models of Hydrodynamics. Textbook*. Tver: Tver State University, 2004. 80 p. (in Russian).
3. Sheretov Yu.V. *Continuum Dynamics under Spatiotemporal Averaging*. Moscow-Izhevsk: Regular and Chaotic Dynamics, 2009. 400 p. (in Russian).
4. Grigoryeva V.V., Sheretov V.G., Sheretov Yu.V. *Elements of Probability Theory and Mathematical Statistics. Textbook*. Tver: Tver State University, 2009. 88 p. (in Russian).
5. Grigoryeva V.V., Sheretov V.G., Sheretov Yu.V. *Elements of Probability Theory and Mathematical Statistics. Textbook*. Electronic Edition. Registered in Ministry of Communications and Mass Communications of Russian Federation 6.05.2014, № 0321491184. 88 p. (in Russian).
6. Sheretov Yu.V. *Regularized Hydrodynamic Equations*. Tver: Tver State University, 2016. 222 p. (in Russian).

### Papers, Dissertations, Methodical articles

1. Elizarova T.G., Sheretov Yu.V. *Invariant Form of Quasi-Gas-Dynamic Equations and their Connection with Navier-Stokes Equations*: Preprint № 230. Moscow: Keldysh Institute of Applied Mathematics of USSR AS, 1987. (in Russian).
2. Antonov A.N., Elizarova T.G., Sheretov Yu.V., Chetverushkin B.N. *Calculation of Pulsating Regimes, Arising in Supersonic Flow Near Resonance Tube*: Preprint № 91. Moscow: Keldysh Institute of Applied Mathematics of USSR AS, 1989. (in Russian).

3. Antonov A.N., Elizarova T.G., Sheretov Yu.V., Chetverushkin B.N. *Numerical Modelling of Pulsating Regimes Accompanying Supersonic Flow Round a Hollow Cylinder* // J. of Computational Math. and Math. Phys. 1990. V. 30, № 4. Pp. 548 – 556. (in Russian).
4. Sheretov Yu.V. *Navier–Stokes Equations as an Asymptotic of Quasi–Gas–Dynamic System*: Preprint № 46. Moscow: Keldysh Institute of Applied Mathematics of USSR AS, 1990. (in Russian).
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6. Elizarova T.G., Sheretov Yu.V. *On the Properties of Shock Wave Type Solutions for Quasi–Gas–Dynamic Equations*: Preprint № 156. Moscow: Keldysh Institute of Applied Mathematics of USSR AS, 1990. (in Russian).
7. Elizarova T.G., Sheretov Yu.V. *The Invariant Form and Asymptotic Properties of a Generalized Quasi–Gas–Dynamic System* // J. of Computational Math. and Math. Phys. 1991. V. 31, № 7. Pp. 1042 – 1050. (in Russian).
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9. Sheretov Yu.V. *Numerical Modeling of Supersonic Gas Flows on the Base of Quasi–Gas–Dynamic Equations*. Referat of Dissertation for Candidate of Physical and Mathematical Sciences Degree. Moscow Institute of Physics and Technology, 1991. 16 p. (in Russian).
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18. Elizarova T.G., Graur I.A., Sheretov Yu.V. *Quasi-Gas-Dynamic Equations and Computer Simulation of Rarefied Gas Flows // Proc. of the 19-th Intern. Symp. on Shock Waves*. Berlin, 1995. V. 4. Pp. 45–50. (in English).
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32. Elizarova T.G., Kalachinskaya I.S., Kluchnikova A.V., Sheretov Yu.V. *Computation of Convective Flows Using the Quasi-Hydrodynamic Equations*. Computational Mathematics and Modeling. 1999. V. 10. № 2. Pp. 160 – 171.
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