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The verification of numerical model used for calculation of compressible viscous turbulent gas flow in inlet system ele-ments, cylinders and piston engine combustion chambers based on the author’s MTFS bundled software has been pre-sented. The computational final volume approach was con-structed on the basis of algorithm of approximate factorization while approximating a solution with the second order of accu-racy in time. The algorithm has a built-in compressibility cor-rection function for low-speed flows and ENO cell parameters reconstruction. The results of comparison with LDA data and quality of prediction of turbulent flow characteristics have been discussed. Il.5. Bibliogr.7 names.