

Salvi, Rodolfo (ed.)

The Navier-Stokes equations: theory and numerical methods. Proceedings of the international conference, Varenna, Lecco, Italy, 2000. (English) [\[Zbl 0972.00046\]](#)
Lecture Notes in Pure and Applied Mathematics 223. New York, NY: Marcel Dekker (ISBN 0-8247-0672-2/pbk). viii, 293 p. (2002).

The articles of this volume will be reviewed individually. The preceding conference (1997) has been reviewed (see [Zbl 0927.00032](#)).

Indexed articles:

Boukrouche, Mahdi, A Reynolds equation derived from the micropolar Navier-Stokes system, 1-18 [[Zbl 1007.35080](#)]

Cannone, Marco; Planchon, Fabrice, More Lyapunov functions for the Navier-Stokes equations, 19-26 [[Zbl 0999.35071](#)]

Coscia, Vincenzo; Guidoboni, Giovanna; Padula, Mariarosaria, On the nonlinear stability of the magnetic Bénard problem, 27-32 [[Zbl 1107.76326](#)]

Hlomuka, Joe V.; Sauer, Niko, Stability of Navier-Stokes flows through permeable boundaries, 33-43 [[Zbl 1107.76327](#)]

Ishimura, Naoyuki, On steady solutions of the Kuramoto-Sivashinsky equation, 45-51 [[Zbl 1006.34010](#)]

Maremonti, Paolo; Russo, Remigio; Starita, Giulio, Classical solutions to the stationary Navier-Stokes system in exterior domains, 53-64 [[Zbl 0999.35070](#)]

Morimoto, Hiroko; Fujita, Hiroshi, Stationary Navier-Stokes flow in 2-dimensional Y-shape channel under general outflow condition, 65-72 [[Zbl 0995.35047](#)]

Saito, Norikazu; Fujita, Hiroshi, Regularity of solutions to the Stokes equations under a certain nonlinear boundary condition, 73-86 [[Zbl 0995.35048](#)]

Salvi, Rodolfo, Viscous incompressible flow in unbounded domains, 87-98 [[Zbl 1012.35063](#)]

Secchi, Paolo, Life span and global existence of 2-D compressible fluids, 99-111 [[Zbl 0997.35052](#)]

Solonnikov, Vsevolod, On the theory of nonstationary hydrodynamic potentials, 113-129 [[Zbl 0995.35044](#)]

Taniuchi, Yasushi, A note on the blow-up criterion for the inviscid 2-D Boussinesq equations, 131-140 [[Zbl 0991.35070](#)]

Zlotnik, Alexander; Amosov, Andrey, Weak solutions to viscous heat-conducting gas 1D-equations with discontinuous data: Global existence, uniqueness, and regularity, 141-158 [[Zbl 1007.35081](#)]

Chae, Dongho; Lee, Jihoon, Regularity criteria of the axisymmetric Navier-Stokes equations, 159-165 [[Zbl 0991.35063](#)]

Choe, Hi Jun; Lee, Sanghyuk, Boundary singular sets for Stokes equations, 167-177 [[Zbl 1034.35088](#)]

Fursikov, A. V., Feedback stabilization for the 2D Navier-Stokes equations, 179-196 [[Zbl 0997.93049](#)]

Kazhikhov, Alexandre V., Approximation of weak limits via method of averaging with applications to Navier-Stokes equations, 197-204 [[Zbl 0990.46017](#)]

Miyakawa, Tetsuro, Asymptotic profiles of nonstationary incompressible Navier-Stokes flows in \mathbb{R}^n and \mathbb{R}_+^n , 205-219 [[Zbl 1012.35062](#)]

Nečasová, Sárka; Penel, Patrick, Remark on the L^2 decay for weak solution to equations of non-Newtonian incompressible fluids in the whole space. II, 221-232 [[Zbl 1107.76311](#)]

Krause, Egon, Navier-Stokes simulations of vortex flows, 233-246 [[Zbl 1008.76052](#)]

Krättele, S.; Wielage, K., Numerical results for the CGBI method to viscous channel flow, 247-255 [[Zbl 1122.76358](#)]

Marengo, Marco; Scardovelli, Rubens; Josserand, Christophe; Zaleski, Stephane, Isothermal drop-wall

interactions. Introduction to experimental and numerical studies, 257-277 [[Zbl 1122.76359](#)]

Ohmori, Katsushi, Convergence of the interface in the finite element approximation for two-fluid flows, 279-293 [[Zbl 1122.76349](#)]

MSC:

[00B25](#) Proceedings of conferences of miscellaneous specific interest

[35-06](#) Proceedings, conferences, collections, etc. pertaining to partial differential equations

[65-06](#) Proceedings, conferences, collections, etc. pertaining to numerical analysis

[76-06](#) Proceedings, conferences, collections, etc. pertaining to fluid mechanics

Keywords:

[Navier-Stokes equations](#); [Numerical methods](#); [Conference](#); [Proceedings](#); [Varenna \(Italy\)](#)