

## INDEX

- ACRIVOS, A. *See* YOUNGREN & ACRIVOS  
ADAMSON, T. C. *See* MESSITER & ADAMSON  
ADRIAN, R. J. Turbulent convection in water over ice, 753  
ANDERSEN, P. S., KAYS, W. M. & MOFFAT, R. J. Experimental results for the transpired turbulent boundary layer in an adverse pressure gradient, 353  
ARIE, MIKIO. *See* KIYA & ARIE  
ATTEN, P. *See* LACROIX, ATTEN & HOPFINGER  
BASDEVANT, C. & SADOURNY, R. Ergodic properties of inviscid truncated models of two-dimensional incompressible flows, 673  
BEARDSLEY, R. C. The 'sliced-cylinder' laboratory model of the wind-driven ocean circulation. Part 2. Oscillatory forcing and Rossby wave resonance, 41  
BEARDSLEY, R. C. & ROBBINS, K. The 'sliced-cylinder' laboratory model of the wind-driven ocean circulation. Part 1. Steady forcing and topographic Rossby wave instability, 27  
BEAVERS, G. S. & JOSEPH, D. D. The rotating rod viscometer, 475  
BIXON, MORDECHAI. *See* ZWANZIG & BIXON  
BRABSTON, D. C. & KELLER, H. B. Viscous flows past spherical gas bubbles, 179  
BRILEY, W. ROGER & McDONALD, HENRY. Numerical prediction of incompressible separation bubbles, 631  
BUCKMASTER, J. D., NACHMAN, A. & TING, L. The buckling and stretching of a viscida, 1  
CHILDRESS, S., LEVANDOWSKY, M. & SPIEGEL, E. A. Pattern formation in a suspension of swimming micro-organisms: equations and stability theory, 591  
COOK, L. PAMELA & LUDFORD, G. S. S. Higher-order approximation for free shear layers in almost rigid rotations, 191  
DAGAN, G. Waves and wave resistance of thin bodies moving at low speed: the free-surface nonlinear effect, 405  
DAIN, C. G. & HODGSON, J. P. The development of weak waves in the unsteady one-dimensional flow of a vibrationally relaxing gas ahead of an impulsively started piston, 129  
DAVIES, P. O. A. L. & YULE, A. J. Coherent structures in turbulence, 513  
DELISI, DONALD P. & ORLANSKI, ISIDORO. On the role of density jumps in the reflexion and breaking of internal gravity waves, 445  
EAGLES, P. M. & WEISSMAN, M. A. On the stability of slowly varying flow: the divergent channel, 241  
FAIRLIE, B. D. *See* PERRY & FAIRLIE  
FRIEDMAN, D. *See* WYGNANSKI, SOKOLOV & FRIEDMAN  
GORDON, D., KLEMENT, U. R. & STEVENSON, T. N. A viscous internal wave in a stratified fluid whose buoyancy frequency varies with altitude, 615  
GRIFFIN, OWEN M. & RAMBERG, STEVEN E. On vortex strength and drag in bluff-body wakes, 721  
HODGSON, J. P. *See* DAIN & HODGSON  
HONJI, H. The starting flow down a step, 229  
HOPFINGER, E. J. *See* LACROIX, ATTEN & HOPFINGER  
HORNBY, R. P. & JOHANNESEN, N. H. The development of weak waves in the steady two-dimensional flow of a gas with vibrational relaxation past a thin wedge, 109

- HSU, CHEN-CHI. A Galerkin method for a class of steady, two-dimensional, incompressible, laminar boundary-layer flows, 783
- HUTHNANCE, JOHN M. On trapped waves over a continental shelf, 689
- JOHANNESEN, N. H. *See* HORNBY & JOHANNESEN
- JOSEPH, D. D. *See* BEAVERS & JOSEPH
- JOSEPH, D. D. & STURGES, LEROY. The free surface on a liquid filling a trench heated from its side, 565
- KAYS, W. M. *See* ANDERSEN, KAYS & MOFFAT
- KELLER, H. B. *See* BRABSTON & KELLER
- KIYA, MASARU & ARIE, MIKIO. Viscous shear flow past small bluff bodies attached to a plane wall, 803
- KLEMENT, U. R. *See* GORDON, KLEMENT & STEVENSON
- LACROIX, J. C., ATTEN, P. & HOPFINGER, E. J. Electro-convection in a dielectric liquid layer subjected to unipolar injection, 539
- LALAS, DEMETRIUS P. The 'Richardson' criterion for compressible swirling flows, 65
- LEAL, L. G. The slow motion of slender rod-like particles in a second-order fluid, 305
- LEE, B. E. The effect of turbulence on the surface pressure field of a square prism, 263
- LEVANDOWSKY, M. *See* CHILDRESS, LEVANDOWSKY & SPIEGEL
- LUDFORD, G. S. S. *See* COOK & LUDFORD
- MCDONALD, HENRY. *See* BRILEY & MCDONALD
- MC LAUGHLIN, DENNIS K., MORRISON, GERALD L. & TROUTT, TIMOTHY R. Experiments on the instability waves in a supersonic jet and their acoustic radiation, 73
- MATSUDA, TAKUYA, SAKURAI, TAKEO & TAKEDA, HIDENORI. Source-sink flow in a gas centrifuge, 197
- MENGUTURK, M. *See* MUNSON & MENGUTURK
- MERILEES, PHILIP E. & WARN, HELEN. On energy and enstrophy exchanges in two-dimensional non-divergent flow, 625
- MESSITER, A. F. & ADAMSON, T. C. On the flow near a weak shock wave downstream of a nozzle throat, 97
- MOFFAT, R. J. *See* ANDERSEN, KAYS & MOFFAT
- MOORE, D. W. & SAFFMAN, P. G. The density of organized vortices in a turbulent mixing layer, 465
- MORRISON, GERALD L. *See* MC LAUGHLIN, MORRISON & TROUTT
- MUNSON, B. R. & MENGUTURK, M. Viscous incompressible flow between concentric rotating spheres. Part 3. Linear stability and experiments, 705
- NACHMAN, A. *See* BUCKMASTER, NACHMAN & TING
- ORLANSKI, ISIDORO. *See* DELISI & ORLANSKI
- PARKER, K. H. *See* WEINBAUM & PARKER
- PERRY, A. E. & FAIRLIE, B. D. A study of turbulent boundary-layer separation and reattachment, 657
- RAMBERG, STEVEN E. *See* GRIFFIN & RAMBERG
- RHINES, PETER B. Waves and turbulence on a beta-plane, 417
- ROBBINS, K. *See* BEARDSLEY & ROBBINS
- SADOURNY, R. *See* BASDEVANT & SADOURNY
- SAFFMAN, P. G. *See* MOORE & SAFFMAN
- SAKURAI, TAKEO. *See* MATSUDA, SAKURAI & TAKEDA
- SCOTT, JOHN C. The preparation of water for surface-clean fluid mechanics, 339

- SOKOLOV, M. *See WYGNANSKI, SOKOLOV & FRIEDMAN*  
 SOWARD, A. M. Random waves and dynamo action, 145  
 SPIEGEL, E. A. *See CHILDRESS, LEVANDOWSKY & SPIEGEL*  
 STEVENSON, T. N. *See GORDON, KLEMENT & STEVENSON*  
 STURGES, LEROY. *See JOSEPH & STURGES*  
 TAKEDA, HIDENORI. *See MATSUDA, SAKURAI & TAKEDA*  
 TING, L. *See BUCKMASTER, NACHMAN & TING*  
 TROUTT, TIMOTHY R. *See McLAUGHLIN, MORRISON & TROUTT*  
 WALKER, JOHN S. Steady flow in rapidly rotating variable-area rectangular ducts, 209  
 WARN, HELEN. *See MERILEES & WARN*  
 WEINBAUM, S. & PARKER, K. H. The laminar decay of suddenly blocked channel and pipe flows, 729  
 WEISSMAN, M. A. *See EAGLES & WEISSMAN*  
 WYGNANSKI, I., SOKOLOV, M. & FRIEDMAN, D. On transition in a pipe. Part 2. The equilibrium puff, 283  
 YOUNGREN, G. K. & ACRIVOS, A. Stokes flow past a particle of arbitrary shape: a numerical method of solution, 377  
 YULE, A. J. *See DAVIES & YULE*  
 ZWANZIG, ROBERT & BIXON, MORDECHAI. Compressibility effects in the hydrodynamic theory of Brownian motion, 21

#### REVIEWS

- Flow-Induced Structural Vibrations, IUTAM/IAHR Symposium, Karlsruhe, edited by E. Naudascher*, 824  
*Atmospheric Waves, by Tom Beer*, 825

#### SHORTER NOTICES

- Proceedings of the 1974 Heat Transfer and Fluid Mechanics Institute, edited by Lorin R. Davis and Robert E. Wilson*, 827  
*Annual Review of Fluid Mechanics, volume 7, edited by M. Van Dyke, W. G. Vincenti and J. V. Wehausen*, 828  
*Strömungen mit Energiezufuhr, by J. Zierep*, 829  
*Singularitätenverfahren der Strömungslehre, by F. Keune and K. Burg*, 829