

## INDEX

- ACRIVOS, ANDREAS. *See KOSSACK & ACRIVOS*
- BANNER, M. L. *See PHILLIPS & BANNER*
- BENNETTS, D. A. & JACKSON, W. D. N. Source-sink flows in a rotating annulus: a combined laboratory and numerical study, 689
- BLISS, DONALD B. *See WIDNALL, BLISS & TSAI*
- BRYANT, P. J. Stability of periodic waves in shallow water, 81
- BUSSE, F. H. & WHITEHEAD, J. A. Oscillatory and collective instabilities in large Prandtl number convection, 67
- CACCHIONE, DAVID & WUNSCH, CARL. Experimental study of internal waves over a slope, 223
- CARLING, J. C. & HUNT, B. L. The near wall jet of a normally impinging, uniform, axisymmetric, supersonic jet, 159
- CESS, R. D. & HARSHVARDHAN. Shear-flow stability within the atmosphere of Venus, 267
- CHADWICK, R. S. & ZVIRIN, Y. Slow viscous flow of an incompressible stratified fluid past a sphere, 377
- CHATWIN, P. C. The dispersion of contaminant released from instantaneous sources in laminar flow near stagnation points, 753
- CHEN, C. F. *See WITHJACK & CHEN*
- CHEN, T. S. *See JOSEPH & CHEN*
- CRAIK, A. D. D. *See USHER & CRAIK*
- CUMMINGS, JOHN C. Development of a high-performance cryogenic shock tube, 177
- ECKELMAN, LARRY D. *See LEE, ECKELMAN & HANRATTY*
- FARHADIEH, R. & TANKIN, R. S. Interferometric study of two-dimensional Bénard convection cells, 739
- FFOWCS WILLIAMS, J. E. Sound production at the edge of a steady flow, 791
- FITZ-GERALD, J. M. Non-Newtonian secretion flow in tubes, 529
- FOX, D. G. *See HERRING, ORSZAG, KRAICHNAN & FOX*
- FREDSOE, JØRGEN. Rotational channel flow over small three-dimensional bottom irregularities, 49
- GASTER, M. On the effects of boundary-layer growth on flow stability, 465
- GEBHART, BENJAMIN. *See JALURIA & GEBHART*
- GEORGE, WILLIAM K. The measurement of turbulence intensities, using real-time laser-Doppler velocimetry, 11
- GRAN, R. L., LEWIS, J. E. & KUBOTA, T. The effect of wall cooling on a compressible turbulent boundary layer, 507
- GRANT, A. J. A numerical model of instability in axisymmetric jets, 707
- GRIFFIN, OWEN M. & RAMBERG, STEVEN E. The vortex-street wakes of vibrating cylinders, 553
- HANRATTY, THOMAS J. *See LEE, ECKELMAN & HANRATTY*
- HARSHVARDHAN. *See CESS & HARSHVARDHAN*
- HASSAN, H. A. Sealing of combustion-generated noise, 445
- HERMANS, J. J. *See SZU & HERMANS*
- HERRING, J. R., ORSZAG, S. A., KRAICHNAN, R. H. & FOX, D. G. Decay of two-dimensional homogeneous turbulence, 417

- HINCH, E. J. & ZIABICKI, A. The mechanics of fluid suspensions and polymer solutions: a report on *Euromech* 49, 1
- HORLOCK, J. H., LEWKOWICZ, A. K. & WORDSWORTH, J. Three-dimensional laminar boundary layers in crosswise pressure gradients, 641
- HORNE, R. N. & O'SULLIVAN, M. J. Oscillatory convection in a porous medium heated from below, 399
- HUNT, B. L. *See* CARLING & HUNT
- JACKSON, W. D. N. *See* BENNETTS & JACKSON
- JALURIA, YOGESH & GEBHART, BENJAMIN. On transition mechanisms in vertical natural convection flow, 309
- JALURIA, YOGESH & GEBHART, BENJAMIN. Stability of buoyancy-induced flows in a stratified medium, 593
- JANOWITZ, G. S. Line singularities in unbounded stratified flow, 455
- JOSEPH, D. D. & CHEN, T. S. Friction factors in the theory of bifurcating Poiseuille flow through annular ducts, 189
- JOUBERT, P. N. *See* SAMUEL & JOUBERT
- KATZ, D. F. *See* PIRONNEAU & KATZ
- KOSSACK, CHARLES A. & ACRIVOS, ANDREAS. Steady simple shear flow past a circular cylinder at moderate Reynolds numbers: a numerical solution, 353
- KRAICHNAN, R. H. *See* HERRING, ORSZAG, KRAICHNAN & FOX
- KUBOTA, T. *See* GRAN, LEWIS & KUBOTA
- LAZAREK, G. M. & LITTMAN, H. The pressure field due to a large circular capped air bubble rising in water, 673
- LEE, MYON KI, ECKELMAN, LARRY D. & HANRATTY, THOMAS J. Identification of turbulent wall eddies through the phase relation of the components of the fluctuating velocity gradient, 17
- LEHNIGK, SIEGFRIED H. & STEVERDING, BERNARD. High-intensity light propagation and induced natural laminar flow, 817
- LEWIS, J. E. *See* GRAN, LEWIS & KUBOTA
- LEWKOWICZ, A. K. *See* HORLOCK, LEWKOWICZ & WORDSWORTH
- LITTMAN, H. *See* LAZAREK & LITTMAN
- LYONS, PATRICK & YANOWITCH, MICHAEL. Vertical oscillations in a viscous and thermally conducting isothermal atmosphere, 273
- MICHAEL, D. H., NORBURY, J. & O'NEILL, M. E. Electrohydrostatic instability in electrically stressed dielectric fluids. Part 1, 289
- MILES, JOHN W. On Laplace's tidal equations, 241
- MUMMOLO, FRANK J. *See* RUBIN & MUMMOLO
- NEWMAN, J. N. Interaction of water waves with two closely spaced vertical obstacles, 97
- NOORDZIJ, L. & VAN WIJNGAARDEN, L. Relaxation effects, caused by relative motion, on shock waves in gas-bubble/liquid mixtures, 115
- NORBURY, J. *See* MICHAEL, NORBURY & O'NEILL
- NORMAN, A. C. Expansions for the shape of maximum amplitude Stokes waves, 261
- O'NEILL, M. E. *See* MICHAEL, NORBURY & O'NEILL
- ORSZAG, S. A. *See* HERRING, ORSZAG, KRAICHNAN & FOX
- O'SULLIVAN, M. J. *See* HORNE & O'SULLIVAN
- PHILLIPS, O. M. & BANNER, M. L. Wave breaking in the presence of wind drift and swell, 625
- PIRONNEAU, O. & KATZ, D. F. Optimal swimming of flagellated micro-organisms, 391

- RAMBERG, STEVEN E. *See* GRIFFIN & RAMBERG
- RUBIN, STANLEY G. & MUMMOLO, FRANK J. Boundary-layer-induced potential flow on an elliptic cylinder, 145
- SAMUEL, A. E. & JOUBERT, P. N. A boundary layer developing in an increasingly adverse pressure gradient, 481
- SOUNDALGEKAR, V. M. Free convection effects on steady MHD flow past a vertical porous plate, 541
- SPRINGER, GEORGE S. *See* TUER & SPRINGER
- STEVERDING, BERNARD. *See* LEHNIGK & STEVERDING
- STEWARTSON, K. *See* WALKER & STEWARTSON
- SZU, SHOUSUN C. & HERMANS, J. J. Rotatory Brownian motion of a rigid dumbbell, 385
- TANKIN, R. S. *See* FARHADIEH & TANKIN
- TSAI, CHON-YIN. *See* WIDNALL, BLISS & TSAI
- TUER, THOMAS W. & SPRINGER, GEORGE S. Axisymmetric expansion of a gas from a nozzle into a vacuum, 107
- USHER, J. R. & CRAIK, A. D. D. Nonlinear wave interactions in shear flows. Part 1. A variational formulation, 209
- WALKER, J. D. A. & STEWARTSON, K. Separation and the Taylor-column problem for a hemisphere, 767
- WALKER, J. S. Steady flow in rapidly rotating circular expansions, 657
- WHITEHEAD, J. A. *See* BUSSE & WHITEHEAD
- WIDNALL, SHEILA E., BLISS, DONALD B. & TSAI, CHON-YIN. The instability of short waves on a vortex ring, 35
- WIJNGAARDEN, L. VAN. *See* NOORDZIJ & VAN WIJNGAARDEN
- WITHJACK, E. M. & CHEN, C. F. An experimental study of Couette instability of stratified fluids, 725
- WORDSWORTH, J. *See* HORLOCK, LEWKOWICZ & WORDSWORTH
- WUNSCH, CARL. *See* CACCHIONE & WUNSCH
- YANOWITCH, MICHAEL. *See* LYONS & YANOWITCH
- YEOW, Y. L. On the stability of extending films: a model for the film casting process, 613
- YOUSAF, M. The effect of overtaking disturbances on the motion of converging shock waves, 577
- ZIABICKI, A. *See* HINCH & ZIABICKI
- ZVIRIN, Y. *See* CHADWICK & ZVIRIN

## REVIEW

*Earth's Rotation and Climate*, by A. S. Monin, 623