

INDEX

- ACRIVOS, ANDREAS. *See* POE & ACRIVOS
- ANDRÉ, J. C. *See* POUQUET, LESIEUR, ANDRÉ & BASDEVANT
- ANDREWS, D. G. & HIDE, R. Hydromagnetic edge waves in a rotating stratified fluid, 593
- ANTONIA, R. A., PRABHU, A. & STEPHENSON, S. E. Conditionally sampled measurements in a heated turbulent jet, 455
- BAR-LEV, M. & YANG, H. T. Initial flow field over an impulsively started circular cylinder, 625
- BASDEVANT, C. *See* POUQUET, LESIEUR, ANDRÉ & BASDEVANT
- BEARMAN, P. W. & FACKRELL, J. E. Calculation of two-dimensional and axisymmetric bluff-body potential flow, 229
- BECHERT, D. & PFIZENMAIER, E. On wavelike perturbations in a free jet travelling faster than the mean flow in the jet, 341
- BLAKE, J. R. *See* KATZ, BLAKE & PAVERI-FONTANA
- BOLLE, H. *See* LAUTERBORN & BOLLE
- BUSSE, F. H. Patterns of convection in spherical shells, 67
- CALTAGIRONE, J. P. Thermoconvective instabilities in a horizontal porous layer, 269
- CERASOLI, CARMEN P. Free shear layer instability due to probes in rotating source-sink flows, 559
- CHANG, W. L. & STEVENSON, T. N. Internal waves in a viscous atmosphere, 773
- CHEN, C. F. Double-diffusive convection in an inclined slot, 721
- CHENG, H. K. & HAFEZ, M. M. Transonic equivalence rule: a nonlinear problem involving lift, 161
- CHOW, CHUEN-YEN. A non-central feeding hydrostatic thrust bearing, 113
- CHWANG, ALLEN T. Hydromechanics of low-Reynolds-number flow. Part 3. Motion of a spheroidal particle in quadratic flows, 17
- COENE, R. The swimming of flexible slender bodies in waves, 289
- CRIGHTON, D. G. Scattering and diffraction of sound by moving bodies, 209
- DANDAPAT, B. S. & GUPTA, A. S. Instability of a horizontal layer of viscoelastic liquid on an oscillating plane, 425
- DANIELS, P. G. The flow about the trailing edge of a supersonic oscillating aerofoil, 541
- DAVIS, G. DE VAHL & MALLINSON, G. D. A note on natural convection in a vertical slot, 87
- DOCTORS, LAWRENCE J. The experimental wave resistance of an accelerating two-dimensional pressure distribution, 513
- DRISCOLL, JAMES F. *See* SMITH & DRISCOLL
- ELTAYEB, I. A. & MCKENZIE, J. F. Critical-level behaviour and wave amplification of a gravity wave incident upon a shear layer, 661
- ENGELUND, FRANK. Instability of flow in a curved alluvial channel, 145
- FACKRELL, J. E. *See* BEARMAN & FACKRELL
- FRISCH, U. *See* SULEM & FRISCH
- FUNG, Y. T. & KURZWEIG, U. H. Stability of swirling flows with radius-dependent density, 243
- GASTER, M. & JORDINSON, R. On the eigenvalues of the Orr-Sommerfeld equation, 121

- GLOWINSKI, R. & PIRONNEAU, O. On the numerical computation of the minimum-drag profile in laminar flow, 385
- GUPTA, A. S. *See* DANDAPAT & GUPTA
- HAFEZ, M. M. *See* CHENG & HAFEZ
- HIDE, R. *See* ANDREWS & HIDE
- HINCH, E. J. Application of the Langevin equation to fluid suspensions, 499
- HUNTER, C. & RIAHI, N. Nonlinear convection in a rotating fluid, 433
- ICHIKAWA, Y. *See* NISHIOKA, IIDA & ICHIKAWA
- IIDA, S. *See* NISHIOKA, IIDA & ICHIKAWA
- JORDINSON, R. *See* GASTER & JORDINSON
- KATZ, D. F., BLAKE, J. R. & PAVERI-FONTANA, S. L. On the movement of slender bodies near plane boundaries at low Reynolds number, 529
- KURZWEG, U. H. *See* FUNG & KURZWEG
- LAUTERBORN, W. & BOLLE, H. Experimental investigations of cavitation-bubble collapse in the neighbourhood of a solid boundary, 391
- LESIEUR, M. *See* POUQUET, LESIEUR, ANDRÉ & BASDEVANT
- LIN, S. P. Damped vibration of a string, 787
- LOPER, DAVID E. A linear theory of rotating, thermally stratified, hydromagnetic flow, 1
- MCKENZIE, J. F. *See* ELTAYEB & MCKENZIE
- MALLINSON, G. D. *See* MALLINSON & DE VAHL DAVIS
- MANDELBROT, BENOIT B. On the geometry of homogeneous turbulence, with stress on the fractal dimension of the iso-surfaces of scalars, 401
- MICHAEL, D. H., NORBURY, J. & O'NEILL, M. E. Electrohydrostatic instability in electrically stressed dielectric fluids. Part 2, 95
- MIDDLETON, JASON H. The asymptotic behaviour of a starting plume, 753
- MILES, JOHN W. Axisymmetric rotating flow past a prolate spheroid, 363
- NISHIOKA, M., IIDA, S. & ICHIKAWA, Y. An experimental investigation of the stability of plane Poiseuille flow, 731
- NORBURY, J. *See* MICHAEL, NORBURY & O'NEILL
- O'NEILL, M. E. *See* MICHAEL, NORBURY & O'NEILL
- PAVERI-FONTANA, S. L. *See* KATZ, BLAKE & PAVERI-FONTANA
- PFIZENMAIER, E. *See* BECHERT & PFIZENMAIER
- PIRONNEAU, O. *See* GLOWINSKI & PIRONNEAU
- POE, G. G. & ACRIVOS, ANDREAS. Closed-streamline flows past rotating single cylinders and spheres: inertia effects, 605
- POPE, S. B. A more general effective-viscosity hypothesis, 331
- POUQUET, A., LESIEUR, M., ANDRÉ, J. C. & BASDEVANT, C. Evolution of high Reynolds number two-dimensional turbulence, 305
- PRABHU, A. *See* ANTONIA, PRABHU & STEPHENSON
- RAMACHANDRA RAO, ADABALA. On an oscillatory point force in a rotating stratified fluid, 353
- REHME, K. Turbulence measurements in smooth concentric annuli with small radius ratios, 189
- RIAHI, N. *See* HUNTER & RIAHI
- ROBINSON, I. S. A novel form of the MHD Rayleigh-Taylor instability, 135
- SAKURAI, TAKEO. Baroclinic-type instability in a gas centrifuge heated from above, 321

- SCOTT, W. E. The large amplitude motion of a liquid-filled gyroscope and the non-interaction of inertial and Rossby waves, 649
- SHLIEN, D. J. & THOMPSON, D. W. Some experiments on the motion of an isolated laminar thermal, 35
- SMITH, JEROME A. & DRISCOLL, JAMES F. The electron-beam fluorescence technique for measurements in hypersonic turbulent flows, 695
- SMITH, RONALD & SPRINKS, T. Scattering of surface waves by a conical island, 373
- SPRINKS, T. *See* SMITH & SPRINKS
- STEPHENSON, S. E. *See* ANTONIA, PRABHU & STEPHENSON
- STEVENSON, T. N. *See* CHANG & STEVENSON
- SULEM, P. L. & FRISCH, U. Bounds on energy flux for finite energy turbulence, 417
- THOMPSON, D. W. *See* SHLIEN & THOMPSON
- VAN ATTA, C. W. & WYNGAARD, J. C. On higher-order spectra of turbulence, 673
- WAGNER, M. H. Developing flow in circular conduits: transition from plug flow to tube flow, 257
- WANG, K. C. Boundary layer over a blunt body at low incidence with circumferential reversed flow, 49
- WYNGAARD, J. C. *See* VAN ATTA & WYNGAARD
- YANG, H. T. *See* BAR-LEV & YANG
- YULE, A. J. Turbulent and laminar pipe flow distorted by magnetic forces, 481

REVIEWS

- Design Theory of Fluidic Components*, by J. M. Kirshner and S. Katz, 207
- Developments in the Theory of Turbulence*, by D. C. Leslie, 587
- Journals Galore*, 589