

INDEX

- ABERNATHY, F. H. *See* PATERSON & ABERNATHY
- ACKERBERG, R. C. & PHILLIPS, J. H. The unsteady laminar boundary layer on a semi-infinite flat plate due to small fluctuations in the magnitude of the free-stream velocity, 137
- ACRIVOS, A. *See* KLEMP & ACRIVOS
- BERG, JOHN C. *See* PALMER & BERG
- BERKLEY, D. A. *See* LESSER & BERKLEY
- BRADBURY, L. J. S. & CASTRO, I. P. Some comments on heat-transfer laws for fine wires, 487
- CASTRO, I. P. *See* BRADBURY & CASTRO
- CHATWIN, P. C. The cumulants of the distribution of concentration of a solute dispersing in solvent flowing in a tube, 63
- CHEUNG, L. *See* CLIFT, GRACE, CHEUNG & DO
- CLIFT, R., GRACE, J. R., CHEUNG, L. & DO, T. H. Gas and solids motion around deformed and interacting bubbles in fluidized beds, 187
- CRIGHTON, D. G. Radiation from vortex filament motion near a half plane, 357
- CRIMINALE, W. O. *See* MATTINGLY & CRIMINALE
- DAGAN, G. & TULIN, M. P. Two-dimensional free-surface gravity flow past blunt bodies, 529
- DAVIS, M. R. Quantitative schlieren measurements in a supersonic turbulent jet, 435
- DAVIS, R. *See* TORRANCE *et al.*
- DAVIS, R. T. Numerical solution of the Navier-Stokes equations for symmetric laminar incompressible flow past a parabola, 417
- DO, T. H. *See* CLIFT, GRACE, CHEUNG & DO
- EIKE, K. *See* TORRANCE *et al.*
- ELLEN, C. H. *See* GREEN & ELLEN
- FLOWNS WILLIAMS, JOHN E. The acoustics of turbulence near sound-absorbent liners, 737
- FITZ-GERALD, J. M. Plasma motions in narrow capillary flow, 463
- FRAENKEL, L. E. Examples of steady vortex rings of small cross-section in an ideal fluid, 119
- FUJINAWA, YUKIO. *See* KONDO, FUJINAWA & NAITO
- GEORGE, W. D. & HELLUMS, J. D. Hydrodynamic stability in plane Poiseuille flow with finite amplitude disturbances, 687
- GILL, P. *See* TORRANCE *et al.*
- GILL, W. N. *See* NUNGE, LIN & GILL
- GRACE, J. R. *See* CLIFT, GRACE, CHEUNG & DO
- GRAN, R. L. *See* LEWIS, GRAN & KUBOTA
- GREEN, C. H. & ELLEN, C. H. The stability of plane Poiseuille flow between flexible walls, 403
- GUTMAN, D. *See* TORRANCE *et al.*
- HANJALIĆ, K. & LAUNDER, B. E. Fully developed asymmetric flow in a plane channel, 301
- HARTMAN, R. J. & LEWIS, H. W. Wake collapse in a stratified fluid: linear treatment, 613
- HASIMOTO, HIDENORI. A soliton on a vortex filament, 477
- HAZEL, PHILIP. Numerical studies of the stability of inviscid stratified shear flows, 39

- HELLUMS, J. D. *See* GEORGE & HELLUMS
- HILL, B. J. Measurement of local entrainment rate in the initial region of axisymmetric turbulent air jets, 773
- HOCKING, L. M., STEWARTSON, K. & STUART, J. T. A nonlinear stability burst in plane parallel flow, 705.
- HSUI, A. *See* TORRANCE *et al.*
- HUGHES, B. A. *See* SCHOOLEY & HUGHES
- HUNG, W. L., JOSEPH, D. D. & MUNSON, B. R. Global stability of spiral flow. Part 2, 593
- HWANG, LI-SAN. *See* TUCK & HWANG
- JABBARI, A. *See* LAKSHMINARAYANA, JABBARI & YAMAOKA
- JOSEPH, D. D. *See* HUNG, JOSEPH & MUNSON
- KLEMP, J. B. & ACRIVOS, A. High Reynolds number flow past a flat plate with strong blowing, 337
- KONDO, JUNSEI, FUJINAWA, YUKIO & NAITO, GEN'ICHI. Wave-induced wind fluctuation over the sea, 751
- KOSCHMIEDER, E. L. Convection in a rotating laterally-heated annulus, 637
- KUBOTA, T. *See* LEWIS, GRAN & KUBOTA
- LAKSHMINARAYANA, B., JABBARI, A. & YAMAOKA, H. Turbulent boundary layer on a rotating helical blade, 545
- LAUNDER, B. E. *See* HANJALIĆ & LAUNDER
- LEIBOVICH, S. & RANDALL, J. D. Solitary waves in concentrated vortices, 625
- LESSER, M. B. & BERKLEY, D. A. Fluid mechanics of the cochlea. Part 1, 497
- LEWIS, H. W. *See* HARTMAN & LEWIS
- LEWIS, J. E., GRAN, R. L. & KUBOTA, T. An experiment on the adiabatic compressible turbulent boundary layer in adverse and favourable pressure gradients, 657
- LIN, T.-S. *See* NUNGE, LIN & GILL
- LUNDGREN, T. S. Slow flow through stationary random beds and suspensions of spheres, 273
- LYONS, S. *See* TORRANCE *et al.*
- MATTINGLY, G. E. & CRIMINALE, W. O. The stability of an incompressible two-dimensional wake, 233
- MAXWORTHY, T. The structure and stability of vortex rings, 15
- MELVILLE, W. K. The use of the loaded-sphere molecular model for computer simulation of diatomic gases, 571
- MUNSON, B. R. *See* HUNG, JOSEPH & MUNSON
- NAITO, GEN'ICHI. *See* KONDO, FUJINAWA & NAITO
- NUNGE, R. J., LIN, T.-S. & GILL, W. N. Laminar dispersion in curved tubes and channels, 363
- PALMER, HARVEY J. & BERG, JOHN C. Hydrodynamic stability of surfactant solutions heated from below, 385
- PATERSON, R. W. & ABERNATHY, F. H. Transition to turbulence in pipe flow for water and dilute solutions of polyethylene oxide, 177
- PHILLIPS, J. H. *See* ACKERBERG & PHILLIPS
- PHILLIPS, O. M. The entrainment interface, 97
- RANDALL, J. D. *See* LEIBOVICH & RANDALL
- ROUX, BERNARD. Supersonic laminar boundary layer near the plane of symmetry of a cone at incidence, 1

- RUDD, M. J. Velocity measurements made with a laser dopplermeter on the turbulent pipe flow of a dilute polymer solution, 673
- SCHOOLEY, A. H. & HUGHES, B. A. An experimental and theoretical study of internal waves generated by the collapse of a two-dimensional mixed region in a density gradient, 159
- SOZOU, C. On some exact solutions in magnetohydrodynamics with astrophysical applications, 33
- SOZOU, C. On fluid motions induced by an electromagnetic field in a liquid drop immersed in a conducting fluid, 585
- STEWARTSON, K. *See* HOCKING, STEWARTSON & STUART
- STUART, J. T. *See* HOCKING, STEWARTSON & STUART
- TAM, CHRISTOPHER K. W. On the noise of a nearly ideally expanded supersonic jet, 69
- TORRANCE, K., DAVIS, R., EIKE, K., GILL, P., GUTMAN, D., HSUI, A., LYONS, S. & ZEIN, H. Cavity flows driven by buoyancy and shear, 221
- TUCK, E. O. & HWANG, LI-SAN. Long wave generation on a sloping beach, 449
- TULIN, M. P. *See* DAGAN & TULIN
- VERONIS, GEORGE & YANG, C. C. Nonlinear source-sink flow in a rotating pie-shaped basin, 513
- YAMAOKA, H. *See* LAKSHMINARAYANA, JABBARI & YAMAOKA
- YANG, C. C. *See* VERONIS & YANG
- YIH, CHIA-SHUN. Surface waves in flowing water, 209
- ZEIN, H. *See* TORRANCE *et al.*

REVIEWS

- The Scientific Papers of Sir Geoffrey Ingram Taylor, Volume IV*, 206
- Shock Tubes: Proceedings of the 7th International Shock Tube Symposium, Toronto, Canada 1969*, edited by I. I. Glass, 208
- Annual Review of Fluid Mechanics, Volume 3*, edited by M. Van Dyke, W. G. Vincenti and J. V. Wehausen, 619
- Übersichtsbeiträge zur Gasdynamik*, edited by E. Leiter and J. Zierep, 621
- Modern Optical Methods in Gas Dynamic Research*, edited by D. S. Dosanjh, 621
- Aerodynamic Characteristics of Atmospheric Boundary Layers*, by Erich J. Plate, 622
- The Measurement of Time-Varying Phenomena: Fundamentals and Applications*, by E. B. Magrab and D. S. Blomquist, 780