

INDEX

- ACRIVOS, ANDREAS. *See* KLEMP & ACRIVOS
- ALLEN, J. S. Upwelling of a stratified fluid in a rotating annulus: steady state. Part 1. Linear theory, 429
- ANTONIA, R. A. Conditionally sampled measurements near the outer edge of a turbulent boundary layer, 1
- ARIE, MIKIO. *See* KIYA & ARIE
- BATCHELOR, G. K. & GREEN, J. T. The hydrodynamic interaction of two small freely-moving spheres in a linear flow field, 375
- BATCHELOR, G. K. & GREEN, J. T. The determination of the bulk stress in a suspension of spherical particles to order c^2 , 401
- BLOOR, M. I. G. *See* VARDY, BLOOR & FOX
- BLYTHE, P. A., KAZAKIA, Y. & VARLEY, E. The interaction of large amplitude shallow-water waves with an ambient shear flow: non-critical flows, 241
- BUSH, WILLIAM B. & FENDELL, FRANCIS E. Asymptotic analysis of turbulent channel and boundary-layer flow, 657
- BUYEVICH, YU. A. Statistical hydromechanics of disperse systems. Part 3. Pseudo-turbulent structure of homogeneous suspensions, 313
- COLEMAN, G. T. & STOLLERY, J. L. Heat transfer from hypersonic turbulent flow at a wedge compression corner, 741
- CORRSIN, STANLEY. *See* KUO & CORRSIN
- CRIGHTON, D. G. The excess noise field of subsonic jets, 683
- DENNIS, S. C. R. *See* WALKER & DENNIS
- DONOHUE, G. L., TIEDERMAN, W. G. & REISCHMAN, M. M. Flow visualization of the near-wall region in a drag-reducing channel flow, 559
- DOWDEN, J. M. An equatorial boundary layer, 193
- DOWDEN, J. M. The relaxation of stress in a ν -fluid with reference to the decay of homogeneous turbulence, 641
- DURST, F., MELLING, A. & WHITELAW, J. H. Laser anemometry: a report on EUROMECH 36, 143
- FENDELL, FRANCIS E. Asymptotic analysis of premixed burning with large activation energy, 81
- FENDELL, FRANCIS E. *See* BUSH & FENDELL
- FOX, J. A. *See* VARDY, BLOOR & FOX
- FREEMAN, N. C. Simple waves on shear flows: similarity solutions, 257
- FREEMAN, N. C. & KUMAR, S. On the solution of the Navier-Stokes equations for a spherically symmetric expanding flow, 523
- GAUTESSEN, A. K. *See* LIN & GAUTESSEN
- GORDON, D. & STEVENSON, T. N. Viscous effects in a vertically propagating internal wave 629
- GREEN, J. T. *See* BATCHELOR & GREEN
- GRUNDY, R. E. On the unsteady expansion of a gas into a near vacuum, 97
- HALLEEN, ROBERT M. *See* JOHNSTON, HALLEEN & LEZIUS
- HERBERT, D. M. The energy balance in modulated plane Poiseuille flow, 73

- HINCH, E. J. & LEAL, L. G. Note on the rheology of a dilute suspension of dipolar spheres with weak Brownian couples, 803
- HIRT, C. W. *See* YOUNG & HIRT
- HOWARTH, J. A. *See* ROBINS & HOWARTH
- HUGHES, O. F. Solution of the wedge entry problem by numerical conformal mapping, 173
- HUNT, J. C. R. *See* WALKER, LUDFORD & HUNT
- HURLEY, D. G. A general method for solving steady-state internal gravity wave problems, 721
- ISHIGAKI, HIROSHI. Heat transfer in a periodic boundary layer near a two-dimensional stagnation point, 619
- JOHNSTON, JAMES P., HALLEEN, ROBERT M. & LEZIUS, DIETRICH K. Effects of spanwise rotation on the structure of two-dimensional fully developed turbulent channel flow, 533
- JONES, W. P. & LAUNDER, B. E. Some properties of sink-flow turbulent boundary layers, 337
- KAZAKIA, Y. *See* BLYTHE, KAZAKIA & VARLEY
- KIYA, MASARU & ARIE, MIKIO. A free-streamline theory for bluff bodies attached to a plane wall, 201
- KLEMP, J. B. & ACRIVOS, ANDREAS. High Reynolds number steady separated flow past a wedge of negative angle, 577
- KRAICHNAN, ROBERT H. Test-field model for inhomogeneous turbulence, 287
- KUMAR, S. *See* FREEMAN & KUMAR
- KUO, ALBERT YI-SHUONG & CORRISIN, STANLEY. Experiment on the geometry of the fine-structure regions in fully turbulent fluid, 447
- LANDAHL, M. T. Wave mechanics of breakdown, 775
- LAUNDER, B. E. *See* JONES & LAUNDER
- LEAL, L. G. *See* HINCH & LEAL
- LEPPINGTON, F. G. On the radiation and scattering of short surface waves. Part 1, 101
- LEZIUS, DIETRICH K. *See* JOHNSTON, HALLEEN & LEZIUS
- LIN, S. P. & GAUTESSEN, A. K. Creeping flow around a deforming sphere, 61
- LUDFORD, G. S. S. *See* WALKER & LUDFORD
- LUDFORD, G. S. S. *See* WALKER, LUDFORD & HUNT
- MELLING, A. *See* DURST, MELLING & WHITELAW
- MIKSAD, RICHARD W. Experiments on the nonlinear stages of free-shear-layer transition, 695
- MORTON, J. B. & SHAUGHNESSY, E. J. Waves in a gas in solid-body rotation, 277
- REISCHMAN, M. M. *See* DONOHUE, TIEDERMAN & REISCHMAN
- RICHARDSON, S. Hele Shaw flows with a free boundary produced by the injection of fluid into a narrow channel, 609
- ROBINS, A. J. & HOWARTH, J. A. Boundary-layer development at a two-dimensional rear stagnation point, 161
- RUBIN, STANLEY G. *See* WEINBERG & RUBIN
- SCOTT, JOHN C. The influence of surface-active contamination on the initiation of wind waves, 591
- SETCHELL, ROBERT E., STORM, ERIK & STURTEVANT, BRADFORD. An investigation of shock strengthening in a conical convergent channel, 505
- SHAUGHNESSY, E. J. *See* MORTON & SHAUGHNESSY

- SOZOU, C. A rotating spherical liquid drop in an electric field, 305
- SOZOU, C. The development of magnetohydrodynamic flow due to the passage of an electric current past a sphere immersed in a fluid, 497
- STEVENSON, T. N. *See* GORDON & STEVENSON
- STOLLERY, J. L. *See* COLEMAN & STOLLERY
- STORM, ERIK. *See* SETCHELL, STORM & STURTEVANT
- STRAUS, JOE M. Finite amplitude doubly diffusive convection, 353
- STURTEVANT, BRADFORD. *See* SETCHELL, STORM & STURTEVANT
- TIEDERMAN, W. G. *See* DONOHUE, TIEDERMAN & REISCHMAN
- VARDY, A. E., BLOOR, M. I. G. & FOX, J. A. Capsular flow in pipelines, 49
- VARLEY, E. *See* BLYTHE, KAZAKIA & VARLEY
- WALKER, J. D. A. & DENNIS, S. C. R. The boundary layer in a shock tube, 19
- WALKER, J. S. & LUDFORD, G. S. S. Three-dimensional MHD duct flows with strong transverse magnetic fields. Part 4. Fully insulated, variable-area rectangular ducts with small divergences, 481
- WALKER, J. S., LUDFORD, G. S. S. & HUNT, J. C. R. Three-dimensional MHD duct flows with strong transverse magnetic fields. Part 3. Variable-area rectangular ducts with insulating walls, 121
- WEINBERG, BERNARD C. & RUBIN, STANLEY G. Compressible corner flow, 753
- WHITELAW, J. H. *See* DURST, MELLING & WHITELAW
- WILCOX, DAVID C. The motion of a plate in a rotating fluid at an arbitrary angle of attack, 221
- YOUNG, JAMES A. & HIRT, C. W. Numerical calculation of internal wave motions, 265

REVIEW

The Thermodynamics of Simple Materials with Fading Memory, by W. A. Day, 607