

INDEX

- ABERNATHY, FREDERICK H. and KRONAUER, RICHARD E. The formation of vortex streets, 1
- BARAKAT, RICHARD. Vertical motion of a floating sphere in a sine-wave sea, 540
- BLYTHE, P. A. *See* JOHANNESSEN
- BUTLER, D. S. *See* GREENSPAN
- CASWELL, B. and SCHWARZ, W. H. The creeping motion of a non-Newtonian fluid past a sphere, 417
- CHEN, C. F. Second-order supercavitating hydrofoil theory, 321
- CHESTER, W. On Oseen's approximation, 557
- CLARKE, JOHN F. Temperature-time histories at the interface between a gas and a solid, 47
- ELCO, R. A. *See* HUGHES
- FAYERS, F. J. Some theoretical results concerning the displacement of a viscous oil by a hot fluid in a porous medium, 65
- FRANCIS, GEORGE C. *See* O'BRIEN
- FULTZ, DAVE. An experimental note on finite-amplitude standing gravity waves, 193
- GALLAGHER, A. P. and MERCER, A. MCD. On the behaviour of small disturbances in plane Couette flow, 91
- GEORGE, D. W. and MESSERLE, H. K. Electrode conduction processes in air plasmas, 465
- GERRARD, J. H. *See* JOHANNESSEN
- GOLD, RICHARD R. Magnetohydrodynamic pipe flow. Part 1, 505
- GRANT, H. L. and MOILLET, A. The spectrum of a cross-stream component of turbulence in a tidal stream, 237
- GREENSPAN, H. P. and BUTLER, D. S. On the expansion of a gas into vacuum, 101
- HAND, GEORGE L. A theory of anisotropic fluids, 33
- HUGHES, W. F. and ELCO, R. A. Magnetohydrodynamic lubrication flow between parallel rotating disks, 21
- JEPHCOTT, D. F. and STOCKER, P. M. Hydromagnetic waves in a cylindrical plasma: an experiment, 587
- JOHANNESSEN, N. H., ZIENKIEWICZ, H. K., BLYTHE, P. A. and GERRARD, J. H. Experimental and theoretical analysis of vibrational relaxation regions in carbon dioxide, 213
- KELLY, R. E. The final approach to steady, viscous flow near a stagnation point following a change in free stream velocity, 449
- KOLMOGOROV, A. N. A refinement of previous hypotheses concerning the local structure of turbulence in a viscous incompressible fluid at high Reynolds number, 82
- KRONAUER, RICHARD E. *See* ABERNATHY
- LANDAHL, MARTEN T. On the stability of a laminar incompressible boundary layer over a flexible surface, 609
- LONGUET-HIGGINS, M. S. and STEWART, R. W. Radiation stress and mass transport in gravity waves, with application to 'surf-beats', 481
- LYONS, J. M. *See* TURCOTTE
- MACZYŃSKI, J. F. J. A round jet in an ambient co-axial stream, 597
- MAGARVEY, R. H. and OUTHOUSE, L. E. Note on the break-up of a charged liquid jet, 151
- MAUGER, F. E. *See* STOCKER
- MERCER, A. MCD. *See* GALLAGHER
- MERRILL, E. W., MICKLEY, H. S. and RAM, A. Instability in Couette flow of solutions of macromolecules, 86
- MESSERLE, H. K. *See* GEORGE
- MICKLEY, H. S. *See* MERRILL

- MILES, JOHN W. Transient gravity wave response to an oscillating pressure, 145
- MILES, JOHN W. A note on the inviscid Orr-Sommerfeld equation, 427
- MILES, JOHN W. On the generation of surface waves by shear flows. Part 4, 433
- MOILLET, A. *See* GRANT
- OBOUKHOV, A. M. Some specific features of atmospheric turbulence, 77
- O'BRIEN, EDWARD E. and FRANCIS, GEORGE C. A consequence of the zero fourth cumulant approximation, 369
- OUTHOUSE, L. E. *See* MARGARVEY
- RAM, A. *See* MERRILL
- REYNOLDS, A. J. Observations on distorted turbulent wakes, 333
- SAFFMAN, P. G. On the stability of laminar flow of a dusty gas, 120
- SCHWARZ, W. H. *See* CASWELL
- SEGEL, L. A. and STUART, J. T. On the question of the preferred mode in cellular thermal convection, 289
- SHERCLIFF, J. A. Magnetohydrodynamic pipe flow. Part 2. High Hartmann number, 513
- SMITH, J. E. *See* STOLLERY
- STERNBERG, JOSEPH. A theory for the viscous sublayer of a turbulent flow, 241
- STEWART, R. W. *See* LONGUET-HIGGINS
- STOCKER, P. M. and MAUGER, F. E. Supersonic flow past cones of general cross-section, 383
- STOCKER, P. M. *See* JEPHCOTT
- STOLLERY, J. L. and SMITH, J. E. A note on the variation of vibrational temperature along a nozzle, 225
- STUART, J. T. *See* SEGEL
- TAYLOR, G. I. Standing waves on a contracting or expanding current, 182
- TAYLOR, R. J. Small-scale advection and the neutral wind profile, 529
- TRAUGOTT, S. C. Impulsive motion of an infinite plate in a compressible fluid with non-uniform external flow, 400
- TRILLING, LEON. On plane linear magnetohydrodynamic waves, 272
- TURCOTTE, D. L. and LYONS, J. M. A periodic boundary-layer flow in magnetohydrodynamics, 519
- TURNER, J. S. The 'starting plume' in neutral surroundings, 356
- WEBSTER, C. A. G. A note on the sensitivity to yaw of a hot-wire anemometer, 307
- WOODING, R. A. Free convection of fluid in a vertical tube filled with porous material, 129
- WOODS, L. C. Hydromagnetic waves in a cylindrical plasma, 570
- WU, T. YAO-TSU. A wake model for free-streamline flow theory. Part 1. Fully and partially developed wake flows and cavity flows past an oblique flat plate, 161
- ZIENKIEWICZ, H. K. *See* JOHANNESSEN

REVIEWS

- Hydrodynamic and Hydromagnetic Stability*, 158
- Aerodynamik des Flugzeuges, Band II*, 313
- Boundary Layer and Flow Control*, 315
- The Plasma Dispersion Function*, 320
- Developments in Mechanics, Vol. 1*, 320
- An Introduction to Magneto-fluid Mechanics*, 478
- Magneto-fluid-dynamics: Current Papers and Abstracts*, 480
- Radiation and Waves in Plasmas*, 633
- Axial Flow Fans*, 634
- Rarefied Gas Dynamics*, 636