

INDEX

- ABAS, S. Stability of a Hartmann boundary layer under the influence of a parallel magnetic field, 721
- BELLHOUSE, B. J. & SCHULTZ, D. L. The measurement of fluctuating skin friction in air with heated thin film gauges, 675
- BRENNER, HOWARD. *See* FELDMAN, GUILI A. & BRENNER, HOWARD
- BRETHEERTON, F. P. & TURNER, J. S. On the mixing of angular momentum in a stirred rotating fluid, 449
- CRAPPER, G. D. The decay of free motion of a floating body: force coefficient at large complex frequencies, 333
- CROW, STEVEN. Turbulent Rayleigh shear flow, 113
- DAVEY, A. *See* GASTER, M. & DAVEY A.
- DAVIES, H. G. & WILLIAMS, J. E. F. Aerodynamic sound generation in a pipe, 765
- DAVIS, STEPHEN H. Convection in a box: on the dependence of preferred wave number upon the Rayleigh number at finite amplitude, 619
- ELDER, J. W. The unstable thermal interface, 69
- FELDMAN, GUILI A. & BRENNER, HOWARD. Experiments on the pressure drop created by a sphere settling in a viscous liquid. Part 2. Reynolds numbers from 0.2 to 21,000, 705
- GASTER, M. The development of three-dimensional wave-packets in a boundary layer, 173
- GASTER, M. & DAVEY, A. The development of three-dimensional wave-packets in unbounded parallel flows, 801
- GEBHART, B. *See* HIEBER, C. A. & GEBHART, B.
- GILL, A. E. A linear model of the Antarctic circumpolar current, 465
- GOTTIFREDI, J. C. & JAMESON, G. J. The suppression of wind-generated waves by a surface film, 609
- GOUGH, D. O. & LYNDEN-BELL, D. Vorticity expulsion by turbulence: astrophysical implications of an Alka-Seltzer experiment, 437
- HARPER, J. F. & MOORE, D. W. The motion of spherical liquid drop at high Reynolds number, 367
- HAYES, WALLACE D. Self-similar strong shocks in an exponential medium, 305
- HAYES, WALLACE D. The propagation upward of the shock wave from a strong explosion in the atmosphere, 317
- HENDERSON, L. F. & MACPHERSON, A. K. On the irregular refraction of a plane at a Mach number interface, 185
- HIDE, R. On source-sink flows in a rotating fluid, 737
- HIDE, R., IBBETSON, A. & LIGTHILL, M. J. On slow transverse flow past obstacles in a rapidly rotating fluid, 251
- HIEBER, C. A. & GEBHART, B. Low Reynolds number heat transfer from a circular cylinder, 21
- HOWE, M. S. Phase jumps, 779
- IBBETSON, A. *See* HIDE, R., IBBETSON, A. & LIGTHILL, M. J.
- JAMESON, G. J. *See* GOTTIFREDI, J. C. & JAMESON, G. J.
- JENG, DAH-TENG. *See* MEECHAM, WILLIAM C. & JENG, DAH-TENG

- LEIBOVICH, S. Axially-symmetric eddies embedded in a rotational stream, 529
- LIGHTHILL, M. J. *See* HIDE, R., IBBETSON, A. & LIGHTHILL, M. J.
- LIU, C. Y. *See* SANDBORN, V. A. & LIU, C. Y.
- LYNDEN-BELL, D. *See* GOUGH, D. O. & LYNDEN-BELL, D.
- MACPHERSON, A. K. *See* HENDERSON, L. F. & MACPHERSON, A. K.
- MCINTYRE, MICHAEL E. The axisymmetric convective regime for a rigidly-bounded rotating annulus, 625
- MEECHAM, WILLIAM C. & JENG, DAH-TENG. Use of the Wiener-Hermite expansion for nearly normal turbulence, 225
- MILES, JOHN W. Lee waves in a stratified flow. Part 1. Thin barrier, 549
- MILLER, C. A. & SCRIVEN, L. E. The oscillations of a fluid droplet immersed in another fluid, 417
- MOORE, D. W. *See* HARPER, J. F. & MOORE, D. W.
- NIELD, D. A. The Rayleigh-Jeffreys problem with boundary slab of finite conductivity, 393
- PEDLEY, T. J. The toroidal bubble, 97
- PEDLOSKY, JOSEPH. An overlooked aspect of the wind-driven oceanic circulation, 809
- PEREGRINE, D. H. Long waves in a uniform channel of arbitrary cross-section, 353
- REYNOLDS, A. J. *See* TUCKER, H. & REYNOLDS, A. J.
- RICHARDS, J. M. Inclined buoyant puffs, 681
- RIMMER, P. L. Heat transfer from a sphere in a stream of small Reynolds number, 1
- RITCHIE, G. S. On the stability of viscous flow between eccentric rotating cylinders, 131
- ROBINSON, A. R. *See* SPIEGEL, S. L. & ROBINSON, A. R.
- SANDBORN, V. A. & LIU, C. Y. On turbulent boundary layer separation, 293
- SCHULTZ, D. L. *See* BELLHOUSE, B. J. & SCHULTZ, D. L.
- SCRIVEN, L. E. *See* MILLER, C. A. & SCRIVEN, L. E.
- SMITH, T. N. The spatial distribution of spheres falling in a viscous liquid, 203
- SPIEGEL, S. L. & ROBINSON, A. R. On the existence and structure of inertial boundary currents in a stratified ocean, 569
- THORPE, S. A. On standing internal gravity waves of finite amplitude, 489
- THORPE, S. A. A method of producing a shear flow in a stratified fluid, 693
- TILLET, J. P. K. On the laminar flow in a free jet of liquid at high Reynolds numbers, 273
- TOWNSEND, A. A. Excitation of internal waves in a stably-stratified atmosphere with considerable wind-shear, 145
- TUCKER, H. J. & REYNOLDS, A. J. The distortion of turbulence by irrotational plane strain, 657
- TURNER, J. S. *See* BRETHERTON, F. P. & TURNER, J. S.
- ULDRICK, J. P. On the propulsion efficiency of swimming flexible hydrofoils of finite thickness, 29
- WANG, CHANG-YI. On high frequency oscillatory viscous flows, 55
- WATSON, PAULINE M. Classical cellular convection with spatial heat source, 399
- WILLIAMS, J. E. FFWCS. *See* DAVIES, H. G. & WILLIAMS, J. E. FFWCS
- WOOD, I. R. Selective withdrawal from a stably stratified fluid, 209
- WOOD, W. W. Calculations for anemometry with fine hot wires, 9
- WOODS, J. D. Wave-induced shear instability in the summer thermocline, 791
- ZDRAVKOVICH, M. M. Smoke observations of the wake of a group of three cylinders at low Reynolds number, 339

REVIEWS

- Non-Newtonian Flow and Heat Transfer*, by A. H. P. Skelland, 208
Hydrodynamics and Heat Transfer in Fluidized Beds, by S. S. Zabrodsky, 412
The Structure of Atmospheric Turbulence, by J. G. Lumley and H. A. Panosky, 415
Fluid Dynamics, by R. H. F. Pao, 823
Fluid Mechanics, by A. G. Hansen, 823
Mechanics of Fluid Flow, by P. A. Longwell, 823
Thermodynamique Appliquée aux Machines, by R. Vichnievsky, 825
Turbo-Machines, Hydrauliques et Thermique, Tome 1, by M. Sédille, 825
Stossrohre, by H. Oertel, 826