

INDEX

- ACHENBACH, ELMAR Vortex shedding from spheres, 209
ACKROYD, J. A. D. Stress work effects in laminar flat-plate natural convection, 677
BECKEMEYER, ROY J. Application of an inner expansion method to plane, inviscid, compressible flow stability studies, 405
BECKER, H. A. & BROWN, A. P. G. Response of Pitot probes in turbulent streams, 85
BROWN, A. P. G. *See* BECKER & BROWN
BUSSE, F. H. & CARRIGAN, C. R. Convection induced by centrifugal buoyancy, 579
CARRIGAN, C. R. *See* BUSSE & CARRIGAN
CHASSAING, P., GEORGE, J., CLARIA, A. & SANANES, F. Physical characteristics of subsonic jets in a cross-stream, 41
CLARIA, A. *See* CHASSAING, GEORGE, CLARIA & SANANES
CORRSIN, S. *See* GAD-EL-HAK & CORRSIN; SHLIEN & CORRSIN
DAVIS, STEPHEN H. *See* VON KERCZEK & DAVIS
DAVIS, STEPHEN H., LIU, AN-KUO & SEALY, GEORGE R. Motion driven by surface-tension gradients in a tube lining, 737
EAGLES, P. M. On the torque of wavy vortices, 1
ELLIS, L. B. & JOUBERT, P. N. Turbulent shear flow in a curved duct, 65
EL SAWI, M. Distorted gas bubbles at large Reynolds number, 163
GAD-EL-HAK, MOHAMED & CORRSIN, S. Measurements of the nearly isotropic turbulence behind a uniform jet grid, 115
GANS, ROGER F. On the Poincaré problem for a compressible medium, 657
GEORGE, J. *See* CHASSAING, GEORGE, CLARIA & SANANES
GREEN, J. S. A. Two-dimensional turbulence near the viscous limit, 273
GRIMSHAW, R. Edge waves: a long-wave theory for oceans of finite depth, 775
HOMSY, GEORGE M. Global stability of time-dependent flows. Part 2. Modulated fluid layers, 387
HUPPERT, HERBERT E. & STERN, MELVIN E. Ageostrophic effects in rotating stratified flow, 369
HUPPERT, HERBERT E. & STERN, MELVIN E. The effect of side walls on homogeneous rotating flow over two-dimensional obstacles, 417
JOUBERT, P. N. *See* ELLIS & JOUBERT
KADER, B. A. *See* YAGLOM & KADER
KASSOV, D. R. A resolution of the blow-off singularity for similarity flow on a flat plate, 145
KERCZEK, CHRISTIAN VON & DAVIS, STEPHEN H. Linear stability theory of oscillatory Stokes layers, 753
KLINE, S. J. *See* OFFEN & KLINE
KRAICHNAN, ROBERT H. On Kolmogorov's inertial-range theories, 305
KUROSAKA, M. On the flow field of a rapidly oscillating airfoil in a supersonic flow, 811
LAVIE, A. M. The locomotion of elongated bodies in pipes, 241
LIU, AN-KUO. *See* DAVIS, LIU & SEALY

- LIU, J. T. C. Developing large-scale wavelike eddies and the near jet noise field, 437
- LYKOUDIS, PAUL S. *See* PAPAILOU & LYKOUDIS
- MCKENZIE, D. P., ROBERTS, J. M. & WEISS, N. O. Convection in the earth's mantle: towards a numerical simulation, 465
- MANDELBROT, BENOIT B. Intermittent turbulence in self-similar cascades: divergence of high moments and dimension of the carrier, 331
- MATSUDA, TAKUYA. *See* SAKURAI & MATSUDA
- METZNER, A. B. *See* MEWIS & METZNER
- MEWIS, J. & METZNER, A. B. The rheological properties of suspensions of fibres in Newtonian fluids subjected to extensional deformations, 593
- OFFEN, G. R. & KLINE, S. J. Combined dye-streak and hydrogen-bubble visual observations of a turbulent boundary layer, 223
- PAPAILOU, DEMOSTHENES D. & LYKOUDIS, PAUL S. Turbulent vortex streets and the entrainment mechanism of the turbulent wake, 11
- PATANKAR, S. V., PRATAP, V. S. & SPALDING, D. B. Prediction of laminar flow and heat transfer in helically coiled pipes, 539
- PRATAP, V. S. *See* PATANKAR, PRATAP & SPALDING
- RILEY, N. Flows with concentrated vorticity: a report on EUROMECH 41, 33
- ROBERTS, J. M. *See* MCKENZIE, ROBERTS & WEISS
- RUBINOW, S. I. *See* WOHL & RUBINOW
- RUDRAIAH, N. & VENKATACHALAPPA, M. Effect of ohmic dissipation on internal Alfvén-gravity waves in a conducting shear flow, 705
- SAKURAI, TAKEO & MATSUDA, TAKUYA Gasdynamics of a centrifugal machine, 727
- SANANES, F. *See* CHASSAING, GEORGE, CLARIA & SANANES
- SCHWARTZ, LEONARD W. Computer extension and analytic continuation of Stokes expansion for gravity waves, 553
- SEALY, GEORGE R. *See* DAVIS, LIU & SEALY
- SHLIEN, D. J. & CORRSIN, S. A measurement of Lagrangian velocity autocorrelation in approximately isotropic turbulence, 255
- SOZOU, C. Fluid motions induced by a periodic magnetic field in and about a liquid drop, 697
- SPALDING, D. B. *See* PATANKAR, PRATAP & SPALDING
- STANDING, R. G. Phase and amplitude discrepancies in the surface wave due to a wedge-ended hull form, 625
- STERN, MELVIN E. *See* HUPPERT & STERN
- STEWARTSON, K. Plate-injection into a separated supersonic boundary layer. Part 2. The transition regions, 289
- VENKATACHALAPPA, M. *See* RUDRAIAH & VENKATACHALAPPA
- WALTON, I. C. Second-order effects in free convection, 793
- WEISS, N. O. *See* MCKENZIE, ROBERTS & WEISS
- WILKS, GRAHAM A separated flow in mixed convection, 359
- WILLIAMS, GARETH P. Generalized Eady waves, 643
- WOHL, PHILIP R. & RUBINOW, S. I. The transverse force on a drop in an unbounded parabolic flow, 185
- YAGLOM, A. M. & KADER, B. A. Heat and mass transfer between a rough wall and turbulent fluid flow at high Reynolds and Péclet numbers, 601