

INDEX

- ABERNATHY, F. H. *See* BULLOCK, COOPER & ABERNATHY
- BELL, T. H. Radiation damping of inertial oscillations in the upper ocean, 289
- BELL, THOMAS L. & NELKIN, MARK. Time-dependent scaling relations and a cascade model of turbulence, 369
- BENNETT, J. C. *See* TAVOULARIS, BENNETT & CORRISIN
- BENTWICH, MICHAEL & MILOH, TOUVIA. The unsteady matched Stokes-Oseen solution for the flow past a sphere, 17
- BERGER, STANLEY A. *See* YAO & BERGER
- BIRCH, A. D., BROWN, D. R., DODSON, M. G. & THOMAS, J. R. The turbulent concentration field of a methane jet, 431
- BRITTER, R. E. & SIMPSON, J. E. Experiments on the dynamics of a gravity current head, 223
- BROWN, D. R. *See* BIRCH, BROWN, DODSON & THOMAS
- BULLOCK, K. J., COOPER, R. E. & ABERNATHY, F. H. Structural similarity in radial correlations and spectra of longitudinal velocity fluctuations in pipe flow, 585
- CHEVRAY, R. & TUTU, N. K. Intermittency and preferential transport of heat in a round jet, 133
- COOPER, R. E. *See* BULLOCK, COOPER & ABERNATHY
- CORRSIN, S. *See* TAVOULARIS, BENNETT & CORRISIN
- CRAMER, M. S. & SEEBASS, A. R. Focusing of weak shock waves at an arête, 209
- DIVER, C. & STEWARTSON, K. On moderate injection into a separated supersonic boundary layer, with reattachment, 115
- DODSON, M. G. *See* BIRCH, BROWN, DODSON & THOMAS
- DREW, DONALD A. The force on a small sphere in slow viscous flow, 393
- EVERITT, K. W. & ROBINS, A. G. The development and structure of turbulent plane jets, 563
- FOGLER, H. S. *See* LI & FOGLER
- GUTMARK, E., WOLFSHTEIN, M. & WYGNANSKI, I. The plane turbulent impinging jet, 737
- HAMA, FRANCIS R. *See* PETERSON & HAMA
- HERRING, JACKSON R. *See* KRAICHNAN & HERRING
- HILL, R. J. Models of the scalar spectrum for turbulent advection, 541
- KASSOY, D. R. & ZEBIB, A. Convection fluid dynamics in a model of a fault zone in the earth's crust, 769
- KATZ, J. & WEIHS, D. Hydrodynamic propulsion by large amplitude oscillation of an airfoil with chordwise flexibility, 485
- KELLER, JOSEPH B. *See* RUBINOW & KELLER
- KRAICHNAN, ROBERT H. & HERRING, JACKSON R. A strain-based Lagrangian-history turbulence theory, 355
- KULEV, A. N. *See* PORODNOV, KULEV & TUCHVETOV
- LAKE, BRUCE M. & YUEN, HENRY C. A new model for nonlinear wind waves. Part 1. Physical model and experimental evidence, 33
- LESSEN, MARTIN. On the power laws for turbulent jets, wakes and shearing layers and their relationship to the principle of marginal instability, 535
- LI, M. K. & FOGLER, H. S. Acoustic emulsification. Part 1. The instability of the oil-water interface to form the initial droplets, 499
- LI, M. K. & FOGLER, H. S. Acoustic emulsification. Part 2. Breakup of the large primary oil droplets in a water medium, 513
- LIM, T. T. *See* PERRY & LIM

- LUMLEY, J. L. *See* WARHAFT & LUMLEY
- MEI, CHIANG C. *See* ROGERS & MEI
- MERKIN, J. H. On solutions of the boundary-layer equations with algebraic decay, 309
- MILOH, TOUVIA. *See* BENTWICH & MILOH
- NELKIN, MARK. *See* BELL & NELKIN
- NETTLETON, M. A. *See* SLOAN & NETTLETON
- PANTON, RONALD L. Potential/complex-lamellar velocity decomposition and its relevance to turbulence, 97
- PATTERSON, G. S. *See* SCHUMANN & PATTERSON
- PERRY, A. E. & LIM, T. T. Coherent structures in coflowing jets and wakes, 451
- PETERSON, LEIGH F. & HAMA, FRANCIS R. Instability and transition of the axisymmetric wake of a slender body of revolution, 71
- PIERCE, T. H. Blast-wave propagation in a spray, 641
- PORODNOV, B. T., KULEV, A. N. & TUCHVETOV, F. T. Thermal transpiration in a circular capillary with a small temperature difference, 609
- POUQUET, A. On two-dimensional magnetohydrodynamic turbulence, 1
- PULLIN, D. I. The large-scale structure of unsteady self-similar rolled-up vortex sheets, 401
- RALLISON, J. M. Note on the Faxén relations for a particle in Stokes flow, 529
- RAMA RAO, K. V. *See* SASTRY & RAMA RAO
- ROBINS, A. G. *see* EVERITT & ROBINS
- ROGERS, STEVEN R. & MEI, CHIANG C. Nonlinear resonant excitation of a long and narrow bay, 161
- RUBINOW, SOL I. & KELLER, JOSEPH B. Wave propagation in a viscoelastic tube containing a viscous fluid, 181
- SASTRY, V. U. K. & RAMA RAO, K. V. Hydromagnetic Stokes flow past a rotating sphere, 757
- SCHUMANN, U. & PATTERSON, G. S. Numerical study of pressure and velocity fluctuations in nearly isotropic turbulence, 685
- SCHUMANN, U. & PATTERSON, G. S. Numerical study of the return of axisymmetric turbulence to isotropy, 711
- SECOMB, T. W. Flow in a channel with pulsating walls, 273
- SEEBASS, A. R. *See* CRAMER & SEEBASS
- SIMPSON, J. E. *See* BRITTER & SIMPSON
- SLOAN, S. A. & NETTLETON, M. A. A model for the decay of a wall shock in a large abrupt area change, 259
- SMITH, RONALD. Asymptotic solutions of the Erdogan-Chatwin equation, 323
- STEWARTSON, K. *See* DIVER & STEWARTSON
- TAVOULARIS, S., BENNETT, J. C. & CORRISIN, S. Velocity-derivative skewness in small Reynolds number, nearly isotropic turbulence, 63
- THOMAS, J. R. *See* BIRCH, BROWN, DODSON & THOMAS
- THORPE, S. A. On internal gravity waves in an accelerating shear flow, 623
- TUCHVETOV, F. T. *See* PORODNOV, KULEV & TUCHVETOV
- TUTU, N. K. *See* CHEVRAY & TUTU
- WARHAFT, Z. & LUMLEY, J. L. An experimental study of the decay of temperature fluctuations in grid-generated turbulence, 659
- WEIHS, D. *See* KATZ & WEIHS
- WILLIAMS, JAMES C. On the nature of unsteady three-dimensional laminar boundary-layer separation, 241

- WOLFSHTEIN, M. *See* GUTMARK, WOLFSHTEIN & WYGNANSKI
WYGNANSKI, I. *See* GUTMARK, WOLFSHTEIN & WYGNANSKI
YAO, LUN-SHIN. Entry flow in a heated straight tube, 465
YAO, LUN-SHIN & BERGER, STANLEY A. Flow in heated curved pipes, 339
YUEN, HENRY C. *See* LAKE & YUEN
ZEBIB, A. *See* KASSOY & ZEBIB

REVIEWS

- Stability of Fluid Motions, volumes 1 and 2, by Daniel D. Joseph, 204*
The Dynamics of the Upper Ocean, 2nd edition, by O. M. Phillips, 793