

INDEX

- ACHESON, D. J. Hydromagnetic wavelike instabilities in a rapidly rotating stratified fluid, 609
- ACRIVOS, A. *See* BARTHÈS-BIESEL & ACRIVOS
- AFZAL, NOOR & YAJNIK, KIRIT. Analysis of turbulent pipe and channel flows at moderately large Reynolds number, 23
- ANTONIA, R. A. & BILGER, R. W. An experimental investigation of an axisymmetric jet in a co-flowing air stream, 805
- APELT, C. J., WEST, G. S. & SZEWICZYK, ALBIN A. The effects of wake splitter plates on the flow past a circular cylinder in the range $10^4 < R < 5 \times 10^4$, 187
- ARIE, MIKIO. *See* KIYA & ARIE
- BARTHÈS-BIESEL, D. & ACRIVOS, A. Deformation and burst of a liquid droplet freely suspended in a linear shear field, 1
- BEARMAN, P. W. & WADCOCK, A. J. The interaction between a pair of circular cylinders normal to a stream, 499
- BERMAN, N. S. & DUNNING, J. W. Pipe flow measurements of turbulence and ambiguity using laser-Doppler velocimetry, 289
- BILGER, R. W. *See* ANTONIA & BILGER
- BREMHORST, K. & WALKER, T. B. Spectral measurements of turbulent momentum transfer in fully developed pipe flow, 173
- BRETHERTON, FRANCIS. *See* RHINES & BRETHERTON
- BRODKEY, ROBERT S. *See* NYCHAS, HERSHY & BRODKEY
- BUCKMASTER, J. The buckling of thin viscous jets, 449
- BUGGISCH, H. The steady two-dimensional reflexion of an oblique partly dispersed shock wave from a plane wall, 159
- CHEE-SENG, LIM. Upstream MGD phenomenon in a jet-threaded cylindrical field, 785
- CHRISTIANSEN, J. P. & ZABUSKY, N. J. Instability, coalescence and fission of finite-area vortex structures, 219
- CRAPPER, G. D. *See* McGREGOR, WRIGHT, SWALES & CRAPPER
- DUNNING, J. W. *See* BERMAN & DUNNING
- Dwyer, H. A. & McCROSKEY, W. J. Oscillating flow over a cylinder at large Reynolds number, 753
- ESCUDIER, M. P. & MAXWORTHY, T. On the motion of turbulent thermals, 541
- GEBHART, BENJAMIN. *See* JALURIA & GEBHART; MOLLENDORF & GEBHART
- GEORGE, Y. H. & MOORE, F. K. Nearly spherical constant-power detonation waves as driven by focused radiation, 481
- GILL, A. E. The least-damped disturbance to Poiseuille flow in a circular pipe, 97
- GRAHAM, E. W. Transient internal waves produced by a moving body in a tank of density-stratified fluid, 465
- GREENWAY, M. E. & WOOD, C. J. The effect of a bevelled trailing edge on vortex shedding and vibration, 323
- HELLIWELL, J. B. Resonant oscillations in radiative magnetogasdynamics, 73
- HERSHY, HARRY C. *See* NYCHAS, HERSHY & BRODKEY
- HUNT, J. C. R. A theory of turbulent flow round two-dimensional bluff bodies, 625

- HUNT, J. C. R. & MULHEARN, P. J. Turbulent dispersion from sources near two-dimensional obstacles, 245
- HUNTLEY, IAN & SMITH, RONALD. Hysteresis and nonlinear detuning in a spatial-resonance phenomenon, 401
- IRWIN, H. P. A. H. Measurements in a self-preserving plane wall jet in a positive pressure gradient, 33
- JALURIA, YOGESH & GEBHART, BENJAMIN. An experimental study of nonlinear disturbance behaviour in natural convection, 337
- KIYA, MASARU & ARIE, MIKIO. A perturbation analysis of the laminar far wake behind a symmetrical two-dimensional body in a uniform shear flow, 305
- LAKSHMINARAYANA, B. *See* RAJ & LAKSHMINARAYANA
- LEPPINGTON, F. G. & LEVINE, H. Reflexion and transmission at a plane screen with periodically arranged circular or elliptical apertures, 109
- LESSER, M. B. Plane jet flows from slowly varying nozzles, 65
- LEVINE, H. *See* LEPPINGTON & LEVINE
- MCCROSKEY, W. J. *See* DWYER & MCCROSKEY
- MCGREGOR, R. C., WRIGHT, A. J., SWALES, P. D. & CRAPPER, G. D. An examination of the influence of waves on the ventilation of surface-piercing struts, 85
- MAXWORTHY, T. *See* ESCUDIER & MAXWORTHY
- MOLLENDORF, J. C. & GEBHART, B. An experimental and numerical study of the viscous stability of a round laminar vertical jet with and without thermal buoyancy for symmetric and asymmetric disturbances, 367
- MOORE, D. R. & WEISS, N. O. Nonlinear penetrative convection, 553
- MOORE, F. K. *See* GEORGE & MOORE
- MULHEARN, P. J. *See* HUNT & MULHEARN
- NARASIMHA, R. & SREENIVASAN, K. R. Relaminarization in highly accelerated turbulent boundary layers, 417
- NYCHAS, STAVROS G., HERSHY, HARRY C. & BRODKEY, ROBERT S. A visual study of turbulent shear flow, 513
- OKAJIMA, A. *See* TANIDA, OKAJIMA & WATANABE
- PRABHAKARA RAO, G. V. Waves generated in rotating fluids by travelling forcing effects, 129
- RAJ, R. & LAKSHMINARAYANA, B. Characteristics of the wake behind a cascade of airfoils, 707
- RHINES, PETER & BRETHERTON, FRANCIS. Topographic Rossby waves in a rough-bottomed ocean, 583
- SMITH, RONALD. *See* HUNTLEY & SMITH
- SNEYD, ALFRED. Fluid flow generated by switching a magnetic field on or off, 209
- SREENIVASAN, K. R. *See* NARASIMHA & SREENIVASAN
- STEVENSON, T. N. *See* THOMAS & STEVENSON
- SWALES, P. D. *See* MCGREGOR, WRIGHT, SWALES & CRAPPER
- SZEWCZYK, ALBIN A. *See* APELT, WEST & SZEWCZYK
- TANIDA, Y., OKAJIMA, A. & WATANABE, Y. Stability of a circular cylinder oscillating in uniform flow or in a wake, 769
- THOMAS, N. H. & STEVENSON, T. N. An internal wave in a viscous ocean stratified by both salt and heat, 301
- THORPE, S. A. Experiments on instability and turbulence in a stratified shear flow, 731
- WADCOCK, A. J. *See* BEARMAN & WADCOCK

- WALKER, T. B. *See BREMHORST & WALKER*
WATANABE, Y. *See TANIDA, OKAJIMA & WATANABE*
WEIHS, D. On the existence of multiple Kármán vortex-street modes, 199
WEISS, N. O. *See MOORE & WEISS*
WEST, G. S. *See APELT, WEST & SZEWZYK*
WOOD, C. J. *See GREENWAY & WOOD*
WRIGHT, A. J. *See McGREGOR, WRIGHT, SWALES & CRAPPER*
WU, JIN. Wind-induced turbulent entrainment across a stable density interface, 275
YAJNIK, KIRIT. *See AFZAL & YAJNIK*
ZABUSKY, N. J. *See CHRISTIANSEN & ZABUSKY*

REVIEWS

- Dynamics of Fluids in Porous Media*, by Jacob Bear, 206
Fundamentals of Transport Phenomena in Porous Media, 206
Differential Equations of Hydraulic Transients, Dispersion and Ground Water Flow, by Wen-Hsiung Li, 206
Mass Transport Phenomena, by C. J. Geankoplis, 414
Momentum, Energy, and Mass Transfer in Continua, by J. C. Slattery, 414
Mathematical Theory of Transport Processes in Gases, by J. H. Ferziger and H. G. Kaper, 823