

INDEX

- ABD-EL-FATTAH, A. M. & HENDERSON, L. F. Shock waves at a slow-fast gas interface, 79
- ACRIVOS, A. *See* RALLISON & ACRIVOS
- ANDREWS, D. G. & McINTYRE, M. E. An exact theory of nonlinear waves on a Lagrangian-mean flow, 609
- ANDREWS, D. G. & McINTYRE, M. E. On wave-action and its relatives, 647
- BARKOV, YU. I. *See* BERKOVSKY, FERTMAN, SINITSYN & BARKOV
- BEARMAN, P. W. & ZDRAVKOVICH, M. M. Flow around a circular cylinder near a plane boundary 33
- BÉGUIER, CLAUDE, FULACHIER, LOUIS & KEFFER, JAMES F. The turbulent mixing layer with an asymmetrical distribution of temperature, 561
- BEJAN, ADRIAN. Natural convection in an infinite porous medium with a concentrated heat source, 97
- BERKOVSKY, B. M., FERTMAN, V. E., SINITSYN, A. K. & BARKOV, YU. I. A theoretical and experimental study of thermal disturbances propagating in a fluid layer heated from below, 173
- BEVILAQUA, PAUL M. & LYKOUKDIS, PAUL S. Turbulence memory in self-preserving wakes, 589
- BLACKWELDER, RON F. *See* CHEN & BLACKWELDER
- BLOCK, PATRICIA J. S. *See* TAM & BLOCK
- BRENNEN, CHRISTOPHER. Bubbly flow model for the dynamic characteristics of cavitating pumps, 223
- BRODKEY, ROBERT S. *See* PRATURI & BRODKEY
- BURGGRAF, O. R. *See* RIZZETTA, BURGGRAF & JENSON
- CAMPOS, L. M. B. C. The spectral broadening of sound by turbulent shear layers. Part 1. The transmission of sound through turbulent shear layers, 723
- CAMPOS, L. M. B. C. The spectral broadening of sound by turbulent shear layers. Part 2. The spectral broadening of sound and aircraft noise, 751
- CHAN, W. T. & KO, N. W. M. Coherent structures in the outer mixing region of annular jets, 515
- CHEN, CHYAN-HAI P. & BLACKWELDER, RON F. Large-scale motion in a turbulent boundary layer: a study using temperature contamination, 1
- CLARKE, J. F. Small amplitude gasdynamic disturbances in an exploding atmosphere, 343
- COLLINS, R., DE MORAES, F. F., DAVIDSON, J. F. & HARRISON, D. The motion of a large gas bubble rising through liquid flowing in a tube, 497
- CURTIS, W. D. *See* PHYTHIAN & CURTIS
- DAVIDSON, J. R. *See* COLLINS, DE MORAES, DAVIDSON & HARRISON
- DUBOIS-VIOLETTE, E. & MANNEVILLE, P. Stability of Couette flow in nematic liquid crystals, 273
- DUDDERAR, T. D. *See* SIMPKINS & DUDDERAR
- ECKHOFF, KNUT S. & STORESLETTEN, LEIV. A note on the stability of steady inviscid helical gas flows, 401
- FERTMAN, V. E. *See* BERKOVSKY, FERTMAN, SINITSYN & BARKOV
- FUJIMOTO, Y. *See* MISHKIN & FUJIMOTO
- FULACHIER, LOUIS. *See* BÉGUIER, FULACHIER & KEFFER
- GEBHART, BENJAMIN & MOLLENDORF, JOSEPH C. Buoyancy-induced flows in water under conditions in which density extremes may arise, 673
- GOLDSTEIN, M. E. Unsteady vortical and entropic distortions of potential flows round arbitrary obstacles, 433

- HARRISON, D. *See* COLLINS, DE MORAES, DAVIDSON & HARRISON
- HENDERSON, L. F. *See* ABD-EL-FATTAH & HENDERSON
- JENSON, R. *See* RIZZETTA, BURGGRAF & JENSON
- KADER, B. A. & YAGLOM, A. M. Similarity treatment of moving-equilibrium turbulent boundary layers in adverse pressure gradients, 305
- KEFFER, JAMES F. *See* BÉGUIER, FULACHIER & KEFFER
- KO, N. W. M. *See* CHAN & KO
- LYKOUNDIS, PAUL S. *See* BEVILAQUA & LYKOUNDIS
- LYKOUNDIS, PAUL S. *See* REED & LYKOUNDIS
- MCINTYRE, M. E. *See* ANDREWS & MCINTYRE
- MANNEVILLE, P. *See* DUBOIS-VIOLETTE & MANNEVILLE
- MISHKIN, E. A. & FUJIMOTO, Y. Analysis of a cylindrical imploding shock wave, 61
- MOLLENDORF, J. C. *See* GEBHART & MOLLENDORF
- MORAES, F. F. DE. *See* COLLINS, DE MORAES, DAVIDSON & HARRISON
- NISHIOKA, MICHIO & SATO, HIROSHI. Mechanism of determination of the shedding frequency of vortices behind a cylinder at low Reynolds numbers, 49
- O'BRIEN, Edward E. Stochastic properties of scalar quantities advected by a non-buoyant plume, 209
- PARKER, GARY. Self-formed straight rivers with equilibrium banks and mobile bed. Part 1. The sand-silt river, 109
- PARKER, GARY. Self-formed straight rivers with equilibrium banks and mobile bed. Part 2. The gravel river, 127
- PEERLESS, S. J. *See* SAIY & PEERLESS
- PETERSEN, R. A. Influence of wave dispersion on vortex pairing in a jet, 469
- PHYTHIAN, R. & CURTIS, W. D. The effective long-time diffusivity for a passive scalar in a Gaussian model fluid flow, 241
- PRATURI, ANANDA K. & BRODKEY, ROBERT S. A stereoscopic visual study of coherent structures in turbulent shear flow, 251
- RALLISON, J. M. & ACRIVOS, A. A numerical study of the deformation and burst of a viscous drop in an extensional flow, 191
- REED, CLAUDE B. & LYKOUNDIS, PAUL S. The effect of a transverse magnetic field on shear turbulence, 147
- RICHTER, FRANK M. Experiments on the stability of convection rolls in fluids whose viscosity depends on temperature, 553
- RIZZETTA, D. P., BURGGRAF, O. R. & JENSON, RICHARD. Triple-deck solutions for viscous supersonic and hypersonic flow past corners, 535
- RUDRAIAH, N. & VENKATACHALAPPA, M. Propagation of hydromagnetic waves in a perfectly conducting non-isothermal atmosphere in the presence of rotation and a variable magnetic field, 785
- SAIY, M. & PEERLESS, S. J. Measurement of turbulence quantities in a two-stream mixing layer, 709
- SATO, HIROSHI. *See* NISHIOKA & SATO
- SIMPKINS, P. G. & DUDDERAR, T. D. Laser speckle measurements of transient Bénard convection, 665
- SINITSYN, A. K. *See* BERKOVSKY, FERTMAN, SINITSYN & BARKOV
- STORESLETTEN, LEIR. *See* ECKHOFF & STORESLETTEN
- TAM, CHRISTOPHER K. W. Excitation of instability waves in a two-dimensional shear layer by sound, 357

- TAM, CHRISTOPHER K. W. & BLOCK, PATRICIA J. W. On the tones and pressure oscillations induced by flow over rectangular cavities, 373
- VENKATACHALAPPA, M. *See* RUDRAIAH & VENKATACHALAPPA
- YAGLOM, A. M. *See* KADER & YAGLOM
- YULE, A. J. Large-scale structure in the mixing layer of a round jet, 413
- ZDRAVKOVICH, M. M. *See* BEARMAN & ZDRAVKOVICH

REVIEWS

- Supersonic Flow and Shock Waves*, by R. Courant and K. O. Friedrichs, 201
- Spezialgebiete der Gasdynamik* by K. Von Oswatitsch, 201
- The Elements of Wave Propagation in Random Media*, by B. J. Uscinski, 203
- Flow-Induced Vibration*, by Robert D. Blevins, 206
- Mechanics of Continuous Media*, by S. C. Hunter, 607
- Fundamentals of Momentum, Heat and Mass Transfer*, by J. R. Welty, C. E. Wicks and R. E. Wilson, 793
- Fundamental Principles of Heat Transfer*, by S. Whitaker, 793
- Computational Methods in Engineering and Science*, by S. Nakamura, 794