

INDEX

- ACHESON, D. J., ANDREWS, D. G., WALTON, I. C. & HOCKING, L. M. Nonlinear processes in rotating fluids: a report on Euromech 56, 241
- AMR, A. & KASSOY, D. R. A note on the description of an attached supersonic boundary layer near a point of injection cut-off, 455
- ANDREWS, D. G. *See* ACHESON, ANDREWS, WALTON & HOCKING
- APELT, C. J. & WEST, G. S. The effects of wake splitter plates on bluff-body flow in the range $10^4 < R < 5 \times 10^4$. Part 2, 145
- BACH, G. G., KUHLE, A. L. & OPPENHEIM, A. K. On blast waves in exponential atmospheres, 105
- BANDYOPADHYAY, P. *See* CHANDRASEKHARA SWAMY & BANDYOPADHYAY
- BARNARD, B. J. S. & PRITCHARD, W. G. The motion generated by a body moving through a stratified fluid at large Richardson numbers, 43
- BECHERT, D. & PEIZENMAIER, E. Optical compensation measurements on the unsteady exit condition at a nozzle discharge edge, 123
- BERGER, S. A. *See* KIM, BERGER, KAMEL, KOROBENIKOV & OPPENHEIM
- BILLINGS, D. F. *See* BLUMEN, DRAZIN & BILLINGS
- BLUMEN, W., DRAZIN, P. G. & BILLINGS, D. F. Shear layer instability of an inviscid compressible fluid. Part 2, 305
- BUSSE, F. H. Nonlinear interaction of magnetic field and convection, 193
- CHANDRASEKHARA SWAMY, N. V. & BANDYOPADHYAY, P. Mean and turbulence characteristics of three-dimensional wall jets, 541
- CHARLSON, G. S. & SANI, R. L. Finite amplitude axisymmetric thermoconvective flows in a bounded cylindrical layer of fluid, 209
- CHATWIN, P. C. On the longitudinal dispersion of passive contaminant in oscillatory flows in tubes, 513
- CHEVRAY, RENE. *See* TUTU & CHEVRAY
- DOTY, R. T. *See* JISCHKE & DOTY
- DRAZIN, P. G. *See* BLUMEN, DRAZIN & BILLINGS
- ELTAYEB, I. A. Overstable hydromagnetic convection in a rotating fluid layer, 161
- FAETH, G. M. *See* GRELLA & FAETH
- FANNELØP, T. K. & KROGSTAD, P. Å. Three-dimensional turbulent boundary layers in external flows: a report on Euromech 60, 815
- FARHADIEH, R. & TANKIN, R. S. A study of the freezing of sea water, 293
- FLOWCS WILLIAMS, J. E. & LOVELY, D. J. Sound radiation into uniformly flowing fluid by compact surface vibration, 689
- FLOWCS WILLIAMS, J. E., SIMSON, J. & VIRCHIS, V. J. 'Crackle': an annoying component of jet noise, 251
- FINSON, MICHAEL L. Similarity behaviour of momentumless turbulent wakes, 465
- FOSTER, THEODORE D. *See* GREEN & FOSTER
- FURUYA, OKITSUGU. Three-dimensional theory on supercavitating hydrofoils near a free surface, 339
- GERMELES, A. E. Forced plumes and mixing of liquids in tanks, 601
- GREEN, LLOYD L. & FOSTER, THEODORE D. Secondary convection in a Hele Shaw cell, 675

- GRELLA, J. J. & FAETH, G. M. Measurements in a two-dimensional thermal plume along a vertical adiabatic wall, 701
- GRIMSHAW, R. Nonlinear internal gravity waves in a rotating fluid, 497
- HARTMAN, R. J. Wave propagation in a stratified shear flow, 89
- HARTMAN, R. J. The development of a partially mixed region in a stratified shear flow, 407
- HILL, F. M. A numerical study of the descent of a vortex pair in a stably stratified atmosphere, 1
- HINCH, E. J. & LEAL, L. G. Constitutive equations in suspension mechanics. Part 1. General formulation, 481
- HIRATA, MIGUEL HIROO. The flow near the bow of a steadily turning ship, 283
- HO, B. P. & LEAL, L. G. The creeping motion of liquid drops through a circular tube of comparable diameter, 361
- HOCKING, L. M. *See* ACHESON, ANDREWS, WALTON & HOCKING
- HOWE, M. S. Contributions to the theory of aerodynamic sound, with application to excess jet noise and the theory of the flute, 625
- JISCHKE, M. C. & DOTY, R. T. Linearized buoyant motion in a closed container, 729
- KAMEL, M. M. *See* KIM, BERGER, KAMEL, KOROBENIKOV & OPPENHEIM
- KASSOY, D. R. *See* AMR & KASSOY
- KIM, K. B., BERGER, S. A., KAMEL, M. M., KOROBENIKOV, V. P. & OPPENHEIM, A. K. Boundary-layer theory for blast waves, 65
- KOROBENIKOV, V. P. *See* KIM, BERGER, KAMEL, KOROBENIKOV & OPPENHEIM
- KROGSTAD, P. Å. *See* FANNELØP & KROGSTAD
- KUHL, A. L. *See* BACH, KUHL & OPPENHEIM
- LEAL, L. G. *See* HINCH & LEAL; HO & LEAL
- LINDEN, P. F. The deepening of a mixed layer in a stratified fluid, 385
- LONG, ROBERT R. Circulations and density distributions in a deep, strongly stratified, two-layer estuary, 529
- LOVELY, D. J. *See* FFOWCS WILLIAMS & LOVELY
- MASON, P. J. Forces on bodies moving transversely through a rotating fluid, 577
- MULHEARN, P. J. On the structure of pressure fluctuations in turbulent shear flow, 801
- MÜLLER, U. *See* STORK & MÜLLER
- NATH, G. *See* VIMALA & NATH
- NETTLETON, M. A. *See* SLOAN & NETTLETON
- NEWMAN, J. N. Interaction of waves with two-dimensional obstacles: a relation between the radiation and scattering problems, 273
- NIELD, D. A. The onset of transient convective instability, 441
- OPPENHEIM, A. K. *See* BACH, KUHL & OPPENHEIM; KIM, BERGER, KAMEL, KOROBENIKOV & OPPENHEIM
- PFIZENMAIER, E. *See* BECHERT & PFIZENMAIER
- PRITCHARD, W. G. *See* BARNARD & PRITCHARD
- RAMAPRIAN, B. R. Turbulence measurements in an 'equilibrium' axisymmetric wall jet, 317
- SANI, R. L. *See* CHARLSON & SANI
- SAVAGE, STUART B. & SOBEY, RODNEY J. Horizontal momentum jets in rotating basins, 755
- SHERCLIFF, J. A. Seepage flow in unconfined aquifers, 181
- SIMSON, J. *See* FFOWCS WILLIAMS, SIMSON & VIRCHIS

- SLOAN, S. A. & NETTLETON, M. A. A model for the axial decay of a shock wave in a large abrupt area change, 769
- SMITH, F. T. Pulsatile flow in curved pipes, 15
- SOBEY, RODNEY J. *See* SAVAGE & SOBEY
- STORK, K. & MÜLLER, U. Convection in boxes: an experimental investigation in vertical cylinders and annuli, 231
- TANKIN, R. S. *See* FARHADIEH & TANKIN
- TUTU, NARINDER K. & CHEVRAY, RENE. Cross-wire anemometry in high intensity turbulence, 785
- VAN ATTA, C. W. & YEH, T. T. Evidence for scale similarity of internal intermittency in turbulent flows at large Reynolds numbers, 417
- VIMALA, C. S. & NATH, G. Three-dimensional laminar compressible boundary layers with large injection, 711
- VIRCHIS, V. J. *See* FLOWCS WILLIAMS, SIMSON & VIRCHIS
- WALTON, I. C. *See* ACHESON, ANDREWS, WALTON & HOCKING
- WANG, YU-HWA. An experimental study of the instability of a stably stratified free shear layer, 563
- WEST, G. S. *See* APELT & WEST
- YEH, T. T. *See* VAN ATTA & YEH

REVIEWS

Principles of Non-Newtonian Fluid Mechanics, by G. Astarita and G. Marrucci, 207

Introduction to Singular Perturbations, by R. E. O'Malley, 827