

## INDEX

- ACHESON, D. J. On over-reflexion, 433
- AHMAD, Q. A., LUXTON, R. E. & ANTONIA, R. A. Characteristics of a turbulent boundary layer with an external turbulent uniform shear flow, 369
- ANTONIA, R. A. *See* AHMAD, LUXTON & ANTONIA
- BANNER, M. L. & MELVILLE, W. K. On the separation of air flow over water waves, 825
- BRADBURY, L. J. S. Measurements with a pulsed-wire and a hot-wire anemometer in the highly turbulent wake of a normal flat plate, 473
- BRADBURY, L. J. S. *See* GASTER & BRADBURY
- BRYANT, P. J. & WOOD, I. R. Selective withdrawal from a layered fluid, 581
- CHATWIN, P. C. The initial dispersion of contaminant in Poiseuille flow and the smoothing of the snout, 593
- COHEN, BRUCE I. *See* WATSON, WEST & COHEN
- CORNER, D., HOUSTON, D. J. R. & ROSS, M. A. S. Higher eigenstates in boundary-layer stability theory, 81
- CRIGHTON, D. G. & GASTER, M. Stability of slowly diverging jet flow, 397
- DAVIS, A. M. J., O'NEILL, M. E., DORREPAAL, J. M. & RANGER, K. B. Separation from the surface of two equal spheres in Stokes flow, 625
- DORREPAAL, J. M. *See* DAVIS, O'NEILL, DORREPAAL & RANGER
- DUMAS, R. *See* FULACHIER & DUMAS
- DUSSAN, V., E. B. The moving contact line: the slip boundary condition, 665
- EVANS, D. V. A theory for wave-power absorption by oscillating bodies, 1
- FRISCH, U. *See* POUQUET, FRISCH & LÉORAT
- FULACHIER, L. & DUMAS, R. Spectral analogy between temperature and velocity fluctuations in a turbulent boundary layer, 257
- GASTER, M. *See* CRIGHTON & GASTER
- GASTER, M. & BRADBURY, L. J. S. The measurement of the spectra of highly turbulent flows by a randomly triggered pulsed-wire anemometer, 499
- GENT, P. R. & LEACH, H. Baroclinic instability in an eccentric annulus, 769
- GENT, P. R. & TAYLOR, P. A. A numerical model of the air flow above water waves, 105
- GILL, A. E. Adjustment under gravity in a rotating channel, 603
- GLUCKMAN, MICHAEL J. *See* WEINBAUM, KOLANSKY, GLUCKMAN & PFEFFER
- HOFFMANN, P. H. *See* PERRY & HOFFMANN
- HOUSTON, D. J. R. *See* CORNER, HOUSTON & ROSS
- HUANG, NORDEN E. *See* LONG & HUANG
- JACKSON, ROSCOE G. Sedimentological and fluid-dynamic implications of the turbulent bursting phenomenon in geophysical flows, 531
- JOHNSTON, JAMES P. *See* LEZIUS & JOHNSTON
- KELLER, JAKOB. Resonant oscillations in closed tubes: the solution of Chester's equation, 279
- KINNERSLEY, WILLIAM. Exact large amplitude capillary waves on sheets of fluid, 229
- KOLANSKY, MICHAEL S. *See* WEINBAUM, KOLANSKY, GLUCKMAN & PFEFFER
- KOTSOVINOS, NIKOLAS E. A note on the spreading rate and virtual origin of a plane turbulent jet, 305

- KRAICHNAN, ROBERT H. Diffusion of passive-scalar and magnetic fields by helical turbulence, 753
- LEACH, H. *See* GENT & LEACH
- LEE, Y. *See* SHAW & LEE
- LEKOUDIS, SPYRIDON G. *See* SARIC, NAYFEH & LEKOUDIS
- LÉORAT, J. *See* POUQUET, FRISCH & LÉORAT
- LEZIUS, DIETRICH K. & JOHNSTON, JAMES P. Roll-cell instabilities in rotating laminar and turbulent channel flows, 153
- LII, K. S., ROSENBLATT, M. & VAN ATTA, C. Bispectral measurements in turbulence, 45
- LONG, STEVEN R. & HUANG, NORDEN E. On the variation and growth of wave-slope spectra in the capillary-gravity range with increasing wind, 209
- LUXTON, E. E. *See* AHMAD, LUXTON & ANTONIA
- MALCOTSIS, G. The mechanism of bubble detachment from a wall at zero and negative gravity, 313
- MANINS, P. C. Mixed-region collapse in a stratified fluid, 177
- MEI, CHIANG C. Flow around a thin body moving in shallow water, 737
- MELVILLE, W. K. *See* BANNER & MELVILLE
- MORRIS, PHILIP J. The spatial viscous instability of axisymmetric jets, 511
- MÜLLER, PETER. On the diffusion of momentum and mass by internal gravity waves, 789
- NAYFEH, ALI H. *See* SARIC, NAYFEH & LEKOUDIS
- O'NEILL, M. E. *See* DAVIS, O'NEILL, DORREPAAL & RANGER
- PERRY, A. E. & HOFFMANN, P. H. An experimental study of turbulent convective heat transfer from a flat plate, 355
- PFEFFER, ROBERT. *See* WEINBAUM, KOLANSKY, GLUCKMAN & PFEFFER
- POUQUET, A., FRISCH, U. & LÉORAT J. Strong MHD helical turbulence and the nonlinear dynamo effect, 321
- RANGER, K. B. *See* DAVIS, O'NEILL, DORREPAAL & RANGER
- ROSENBLATT, M. *See* LII, ROSENBLATT & VAN ATTA
- ROSS, M. A. S. *See* CORNER, HOUSTON & ROSS
- SARIC, WILLIAM S., NAYFEH, ALI H. & LEKOUDIS, SPYRIDON G. Experiments on the stability of liquid films adjacent to supersonic boundary layers, 63
- SHANKAR, P. N. & SINHA, U. N. The Rayleigh problem for a wavy wall, 243
- SHAW, C. Y. & LEE, Y. Wind-induced turbulent heat and mass transfer over large bodies of water, 645
- SINHA, U. N. *See* SHANKAR & SINHA
- SMITH, RONALD. Giant waves, 417
- TAYLOR, P. A. *See* GENT & TAYLOR
- VAN ATTA, C. *See* LII, ROSENBLATT & VAN ATTA
- VAN HOLTEN, TH. Some notes on unsteady lifting-line theory, 561
- WATSON, KENNETH M., WEST, BRUCE J. & COHEN, BRUCE I. Coupling of surface and internal gravity waves: a mode coupling model, 185
- WEIDMAN, PATRICK D. On the spin-up and spin-down of a rotating fluid. Part 1. Extending the Wedemeyer model, 685
- WEIDMAN, PATRICK D. On the spin-up and spin-down of a rotating fluid. Part 2. Measurements and stability, 709

- WEINBAUM, SHELDON, KOLANSKY, MICHAEL S., GLUCKMAN, MICHAEL J. & PFEFFER, ROBERT. An approximate theory for incompressible viscous flow past two-dimensional bluff bodies in the intermediate Reynolds number regime  $O(1) < Re < O(10^2)$ , 129
- WEST, BRUCE J. *See* WATSON, WEST & COHEN
- WIJNGAARDEN, L. VAN. Hydrodynamic interaction between gas bubbles in liquid, 27
- WOOD, I. R. *See* BRYANT & WOOD

## REVIEWS

- Collected Works of Theodore Von Kármán*, 414
- Aerodynamics by L. J. Clancy*, 622
- Fluid Mechanics and Thermodynamics of our Environment*, by S. Eskinazi, 843
- Stability of Reaction and Transport Processes*, by M. M. Denn, 844