

INDEX

- BALL, F. K. Finite tidal waves propagated without change of shape, 506
- BENJAMIN, T. BROOKE. Effects of a flexible boundary on hydrodynamic stability, 513
- BLEVISS, Z. O. A study of the structure of the magnetohydrodynamic switch-on shock in a steady plane motion, 49
- BOYER, D. W. An experimental study of the explosion generated by a pressurized sphere, 401
- CHANG, I-DEE. Stokes flow of a conducting fluid past an axially symmetric body in the presence of a uniform magnetic field, 473
- CONSTANTINE, T. On the movement of ships in restricted waterways, 247
- DERGARABEDIAN, PAUL. Observations on bubble growths in various superheated liquids, 39
- DI PRIMA, R. C. The stability of a viscous fluid between rotating cylinders with an axial flow, 621
- DODD, K. N. On the disintegration of water drops in an air stream, 175
- ELDER, J. W. An experimental investigation of turbulent spots and breakdown to turbulence, 235
- ELDER, J. W. The flow past a flat plate of finite width, 133
- GLAUERT, M. B. The method of images in shear flow, 561
- GOODY, R. M. The influence of radiative transfer on the propagation of a temperature wave in a stratified diffusing atmosphere, 445
- GREENSPAN, H. P. On longitudinal motion in a magnetic field, 455
- GREGORY, N. and WALKER, W. S. Experiments on the effect of suction on the flow due to a rotating disk, 225
- HASSAN, H. A. On unsteady laminar boundary layers, 300
- HOWELLS, I. D. An approximate equation for the spectrum of a conserved scalar quantity in a turbulent fluid, 104
- HUMPHREYS, JOHN S. On a circular cylinder in a steady wind at transition Reynolds numbers, 603
- LAITONE, E. V. The second approximation to cnoidal and solitary waves, 430
- LAUFER, JOHN and VREBALOVICH, THOMAS. Stability and transition of a supersonic laminar boundary layer on an insulated flat plate, 257
- LIGHTHILL, M. J. Note on the swimming of slender fish, 305
- LIGHTHILL, M. J. Note on waves through gases at pressures small compared with the magnetic pressure, with applications to upper-atmosphere aerodynamics, 465
- LUDFORD, G. S. S. The propagation of waves along and through a conducting layer of gas, 119
- MORTON, B. R. Weak thermal vortex rings, 107
- PAIN, H. J. and SMY, P. R. The electrical conductivity of shock-ionized argon, 390
- PHILLIPS, O. M. On the dynamics of unsteady gravity waves of finite amplitude. Part 1. The elementary interactions, 193
- PHILLIPS, O. M. On the generation of sound by supersonic turbulent shear layers, 1
- PROUDMAN, IAN. An example of steady laminar flow at large Reynolds number, 593
- ROBINSON, A. R. On two-dimensional inertial flow in a rotating stratified fluid, 321

- SAWYER, R. A. The flow due to a two-dimensional jet issuing parallel to a flat plate, 543
- SHERCLIFF, J. A. One-dimensional magnetogasdynamics in oblique fields, 481
- SMITH, D. H. and WINTLE, H. J. The propagation of sound in relaxing gases in tubes at low frequencies, 29
- SMY, P. R. *See* PAIN, H. J.
- STUART, J. T. On the non-linear mechanics of wave disturbances in stable and unstable parallel flows. Part 1. The basic behaviour in plane Poiseuille flow, 353
- SWIGART, R. J. Third-order blast wave theory and its application to hypersonic flow past blunt-nosed cylinders, 613
- TALWAR, S. P. Stability of a conducting rotating fluid of variable density, 581
- TAYLOR, G. I. Deposition of a viscous fluid on a plane surface, 218
- URSELL, F. Steady wave patterns of a non-uniform steady fluid flow, 333
- VAGLIO-LAURIN, ROBERTO. Transonic rotational flow over a convex corner, 81
- VINOKUR, M. Kinematic formulation of rotational gas flow, 533
- VREBALOVICH, THOMAS. *See* LAUFER
- WALKER, W. S. *See* GREGORY
- WATSON, J. On the non-linear mechanics of wave disturbances in stable and unstable parallel flows. Part 2. The development of a solution for plane Poiseuille flow and for plane Couette flow, 371
- WHITHAM, G. B. A note on group velocity, 347
- WINTLE, H. J. *See* SMITH
- WOODING, R. A. Rayleigh instability of a thermal boundary layer in flow through a porous medium, 183
- YIH, CHIA-SHUN. A transformation for non-homentropic flows, with an application to large-amplitude motion in the atmosphere, 68
- YIH, CHIA-SHUN. Exact solutions for steady two-dimensional flow of a stratified fluid, 161

REVIEWS

- The Scientific Papers of G. I. Taylor. Vol. II: Meteorology, Oceanography and Turbulent Flow*, 154
- Advances in Geophysics. Vol. 6: Atmospheric Diffusion and Air Pollution*, 156
- Rheology: Theory and Applications. Vol. III*, 158
- Plasma Physics*, 318
- Units, Dimensions, and Dimensionless Numbers*, 478
- The Gulf Stream: A Physical and Dynamical Description*, 632
- Viscoelasticity: Phenomenological Aspects*, 634
- Hypersonic Flow*, 636