

INDEX

- APPLETON, J. P. and BRAY, K. N. C. The conservation equations for a non-equilibrium plasma, 659
- BATCHELOR, G. K. Axial flow in trailing line vortices, 645
- BLYTHE, P. A. Asymptotic solutions in non-equilibrium nozzle flow, 243
- BRAY, K. N. C. *See* APPLETON
- BRETHERTON, F. P. Inertial effects on clusters of spheres falling in a viscous fluid, 401
- BRETHERTON, F. P. Resonant interactions between waves. The case of discrete oscillations, 457
- BUSH, WILLIAM B. On the viscous hypersonic blunt body problem, 353
- CHAUDHURY, Z. H. Heat transfer in a radial liquid jet, 501
- CHILDRESS, STEPHEN. The slow motion of a sphere in a rotating, viscous fluid, 305
- CLARKE, JOHN F. On the propagation of small disturbances in a relaxing gas with heat addition, 209
- COX, B. G. An experimental investigation of the streamlines in viscous fluid expelled from a tube, 193
- DAVIS, R. T. and FLÜGGE-LOTZ, I. Second-order boundary-layer effects in hypersonic flow past axisymmetric blunt bodies, 593
- DONNELLY, R. J. *See* SCHWARZ
- DUNWOODY, N. T. Instability of a viscous fluid of variable density in a magnetic field, 103
- DUTY, R. L. and REID, W. H. On the stability of viscous flow between rotating cylinders. Part 1. Asymptotic analysis, 81
- EICHORN, R. and SMALL, S. Experiments on the lift and drag of spheres suspended in a Poiseuille flow, 513
- ESKINAZI, S. *See* KRUKA
- FAN, D. N. Aligned-fields magnetogasdynamic wakes, 433
- FLÜGGE-LOTZ, I. *See* DAVIS
- FRATER, K. R. Secondary flow in an elastico-viscous fluid caused by rotational oscillations of a sphere. Part 1, 369
- GASTER, M. A new technique for the measurement of low fluid velocities, 183
- GHEORGHITZA, ST. I. On the non-steady motion of visco-plastic liquids in porous media, 273
- GILBERT, FREEMAN. *See* MUNK
- GILLE, JOHN and GOODY, RICHARD. Convection in a radiating gas, 47
- GOODY, RICHARD. *See* GILLE
- GREENSPAN, H. P. On the transient motion of a contained rotating fluid, 673
- HARRIS, D. L. and REID, W. H. On the stability of viscous flow between rotating cylinders. Part 2. Numerical analysis, 95
- HOCKING, L. M. The behaviour of clusters of spheres falling in a viscous fluid. Part 2. Slow motion theory, 129
- HOWARD, LOUIS N. *See* MILES
- JACOBS, S. J. The Taylor column problem, 581
- JAYAWEEERA, K. O. L. F., MASON, B. J. and SLACK, G. W. The behaviour of clusters of spheres falling in a viscous fluid. Part 1. Experiment, 121

- JONSSON, V. K. *See* SPARROW
- KRUKA, V. and ESKINAZI, S. The wall-jet in a moving stream, 555
- LIVESEY, J. L. and TURNER, J. T. The generation of symmetrical duct velocity profiles of high uniform shear, 201
- LONG, ROBERT R. The initial-value problem for long waves of finite amplitude, 161
- MARRIS, A. W. Generation of secondary vorticity in a stratified fluid, 177
- MASON, B. J. *See* JAYAWEERA
- METZNER, A. B. and PARK, M. GRAHAM. Turbulent flow characteristics of viscoelastic fluids, 291
- MILES, JOHN W. and HOWARD, LOUIS N. Note on a heterogeneous shear flow, 331
- MOORE, DESMOND F. On the inclined non-inertial sinkage of a flat plate, 321
- MÖRCH, K. A. A theory for the mode of operation of the Hartmann air-jet generator, 141
- MUNK, WALTER, SNODGRASS, FRANK and GILBERT, FREEMAN. Long waves on the continental shelf: an experiment to separate trapped and leaky modes, 529
- MUNRO, W. D. *See* SPARROW
- MUNSON, ALBERT G. The vortical layer on an inclined cone, 625
- OWEN, P. R. Saltation of uniform grains in air, 225
- PARK, M. GRAHAM. *See* METZNER
- REID, W. H. *See* DUTY
- REID, W. H. *See* HARRIS
- SAKAO, FUJIIHIKO. *See* SATO
- SANI, R. On the non-existence of subcritical instabilities in fluid layers heated from below, 315
- SATO, HIROSHI and SAKAO, FUJIIHIKO. An experimental investigation of the instability of a two-dimensional jet at low Reynolds numbers, 337
- SCHWARZ, K. W., SPRINGETT, B. E. and DONNELLY, R. J. Modes of instability in spiral flow between rotating cylinders, 281
- SIEKMANN, J. *See* ULDRICK
- SLACK, G. W. *See* JAYAWEERA
- SMALL, S. *See* EICHHORN
- SNODGRASS, FRANK. *See* MUNK
- SPARROW, E. M., MUNRO, W. D. and JONSSON, V. K. Instability of the flow between rotating cylinders: the wide-gap problem, 35
- SPRINGETT, B. E. *See* SCHWARZ
- SRIVASTAVA, A. C. Note on fluctuating flow near a stagnation point, 411
- TURNER, J. T. *See* LIVESEY
- ULDRICK, J. P. and SIEKMANN, J. On the swimming of a flexible plate of arbitrary finite thickness, 1
- WANG, KUO CHANG. The 'piston problem' with thermal radiation, 447
- WATSON, E. J. The radial spread of a liquid jet over a horizontal plane, 481
- WEDEMEYER, E. H. The unsteady flow within a spinning cylinder, 383
- WILLIAMS, W. E. Note on the scattering of long waves in a rotating system, 115
- WILLS, J. A. B. On convection velocities in turbulent shear flows, 417

REVIEWS

- The Sea. Volume 1. Physical Oceanography*, 171
Magnetohydrodynamic Shock Waves, 173
The Theory of Laminar Boundary Layers in Compressible Fluids, 697
Lectures on Gas Theory, 698
Handbook of Supersonic Aerodynamics, 699

SHORTER NOTICES

- Optics of Flames*, 700
Cryogenic Engineering, 700
Les Liquides Simples, 700
Lectures in Theoretical Physics, Vol. VI, 700
Stress Waves in Anelastic Solids, 700
Proceedings of the 1964 Heat Transfer and Fluid Mechanics Institute, 700
Relativistic Fluid Mechanics and Magnetohydrodynamics, 701
Hydraulics and Fluid Mechanics, 701