INDEX

ASHKENAS, HARRY. *See* WEGENER

BENJAMIN, T. BROOKE. The development of three-dimensional disturbances in an unstable film of liquid flowing down an inclined plane, 401

BENNEY, D. J. A non-linear theory for oscillations in a parallel flow, 209

BLYTHE, P. A. Comparison of exact and approximate methods for analysing vibrational relaxation regions, 33

BREACH, D. R. Slow flow past ellipsoids of revolution, 306

BRETHERTON, F. P. The motion of long bubbles in tubes, 166

BROWN, D. R. A study of the behaviour of a thin sheet of moving liquid, 297

BRYSON, A. E. and GROSS, R. W. F. Diffraction of strong shocks by cones, cylinders, and spheres, 1

CABANNES, HENRI and STAEL, CLAUDE. Singularities of attached shock waves in steady axially symmetric flow, 289

CASE, K. M. Hydrodynamic stability and the inviscid limit, 420

CHESTER, W. The effect of a magnetic field on the flow of a conducting fluid past a body of revolution, 459

CHESTER, W. and MOORE, D. W. The effect of a magnetic field on the flow of a conducting fluid past a circular disk, 466

CORRSIN, S. *See* KENNEDY

COSART, W. P. *See* SCHWARZ

DAVEY, A. Boundary-layer flow at a saddle point of attachment, 593

DRAZIN, P. G. Discontinuous velocity profiles for the Orr–Sommerfeld equation, 571

DUNGEY, J. W. The action of Vlasov waves on the velocity distribution in a plasma, 473

ECKHAUS, WIKTOR. Theory of flame-front stability, 80

FRANCIS, J. R. D. A further note on the speed of floating bodies in a stream, 48

GLAUERT, M. B. A study of the magnetohydrodynamic boundary layer on a flat plate, 276

GOURDINE, MEREDITH C. Magnetohydrodynamic flow constructions with fundamental solutions, 439

GROSS, R. W. F. *See* BRYSON

HORLOCK, J. H. *See* MARSH

HOWARD, LOUIS N. Note on a paper of John W. Miles, 509

HUGHES, B. A. and STEWART, R. W. Interaction between gravity waves and a shear flow, 385

JOHANNSEN, N. H. Analysis of vibrational relaxation regions by means of the Rayleigh-line method, 25

KAHN, F. D. A dispersion relation for waves of finite amplitude in a two-stream plasma, 357

KANWAL, R. P. Slow steady rotation of axially symmetric bodies in a viscous fluid, 17

KENNEDY, D. A. and CORRSIN, S. Spectral flatness factor and 'intermittency' in turbulence and in non-linear noise, 366

KUO, H. L. Solution of the non-linear equations of cellular convection and heat transport, 611

LIEPMANN, HANS W. Gaskinetics and gasdynamics of orifice flow, 65

LIN, C. C. Some mathematical problems in the theory of the stability of parallel flows, 430

LONGUET-HIGGINS, M. S. and STEWART, R. W. The changes in amplitude of short gravity waves on steady non-uniform currents, 529

LUDFORD, G. S. S. The effect of a very strong magnetic cross-field on a steady motion through a slightly conducting fluid, 141

MARSH, H. and HORLOCK, J. H. Diabatic gas flows, 513

MICHAEL, D. H. Note on the stability of plane parallel flows, 525

MILES, JOHN W. On the stability of heterogeneous shear flows, 496

MOORE, D. W. *See* CHESTER

MORTON, B. R. On a momentum-mass flux diagram for turbulent jets, plumes and wakes, 101

NARASIMHA, RODDAM. Orifice flow at high Knudsen numbers, 371

PAIN, H. J. and SMY, P. R. Experiments on power generation from a moving plasma, 51

ROSHKO, ANATOL. Experiments on the flow past a circular cylinder at very high Reynolds number, 345

SATAPATHY, R. and SMITH, W. The motion of single immiscible drops through a liquid, 561

SCHWARZ, W. H. and COSART, W. P. The two-dimensional turbulent wall-jet, 481

SHINNAR, REUEL. On the behaviour of liquid dispersions in mixing vessels, 259

SMITH, W. *See* SATAPATHY

SMY, P. R. *See* PAIN

SPENCE, D. A. The theory of the jet-flap for unsteady motion, 237

STAEL, CLAUDE. *See* CABANNES

STEWART, R. W. *See* HUGHES

STEWART, R. W. *See* LONGUET-HIGGINS

STEWART, R. W. The wave drag of wind over water, 189

TAYLOR, G. I. Deposition of a viscous fluid on the wall of a tube, 161

TAYLOR, R. J. A new approach to the measurement of turbulent fluxes in the lower atmosphere, 449

TOWNSEND, A. A. A continuum theory of the isothermal flow of liquid helium II, 113

WARREN, F. W. G. A stationary-phase approximation to the ship-wave pattern, 584

WEGENER, PETER P. and ASHKENAS, HARRY. Wind tunnel measurements of sphere drag at supersonic speeds and low Reynolds numbers, 550

WERNER, J. E. Unsteady interaction of a shock wave with a cellular vortex field, 195

WU, T. YAO-TSU. Swimming of a waving plate, 321

YIH, CHIA-SHUN. Flow of a non-homogeneous fluid in a porous medium, 133

REVIEWS

Handbook of Supersonic Aerodynamics, 156

Hydromagnetic Channel Flows, 158

Non-Newtonian Fluids, 315

Heat Transfer, 317

Turbulence. An Introduction to Its Mechanism and Theory, 319

Similitude Physique: Examples d'Applications à la Mécanique des Fluides, 480

Turbulent Flows and Heat Transfer, 635

The Atmosphere and the Sea in Motion, 637