

INDEX

- ACHESON, D. J. The critical level for hydromagnetic waves in a rotating fluid, 401
- ACRIVOS, ANDREAS. *See* KLEMP & ACRIVOS
- ANTONIA, R. A. & LUXTON, R. E. The response of a turbulent boundary layer to a step change in surface roughness. Part 2. Rough-to-smooth, 737
- ATASSI, H. & SHEN, S. F. A unified kinetic theory approach to external rarefied gas flows. Part 1. Derivation of hydrodynamic equations, 417
- ATASSI, H. & SHEN, S. F. A unified kinetic theory approach to external rarefied gas flows. Part 2. Application to a steady low-speed motion past a circular cylinder, 433
- BEARMAN, P. W. Some measurements of the distortion of turbulence approaching a two-dimensional bluff body, 451
- BLACKWELDER, RON F. & KOVASZNYI, LESLIE S. G. Large-scale motion of a turbulent boundary layer during relaminarization, 61
- BRADSHAW, PETER. *See* HUFFMAN & BRADSHAW
- CHARWAT, A. F., KELLY, R. E. & GAZLEY, C. The flow and stability of thin liquid films on a rotating disk, 227
- CHAWLA, S. S. On hydromagnetic spin-up, 545
- CRAIK, ALEX D. D. Eigenvalue bounds in linear inviscid stability theory, 657
- DAVEY, A. The propagation of a weak nonlinear wave, 782
- DAVEY, ROBERT F. & ROSHKO, ANATOL. The effect of a density difference on shear-layer instability, 523
- DAVIDSON, B. J. & RILEY, N. Jets induced by oscillatory motion, 287
- DEVANATHAN, RATHNA. *See* RAO & DEVANATHAN
- ELFSTROM, G. M. Turbulent hypersonic flow at a wedge-compression corner, 113
- ELLIOTT, J. A. Microscale pressure fluctuations measured within the lower atmospheric boundary layer, 351
- ELTER, JOHN F. & MOLYNEUX, JOHN E. The long-distance propagation of shallow water waves over an ocean of random depth, 1
- FENTON, JOHN. A ninth-order solution for the solitary wave, 257
- FISCHER, HUGO B. Mass transport mechanisms in partially stratified estuaries, 671
- FORTUNA, GILEAD & HANRATTY, THOMAS J. The influence of drag-reducing polymers on turbulence in the viscous sublayer, 575
- FOSTER, M. R. The flow caused by the differential rotation of a right circular cylindrical depression in one of two rapidly rotating parallel planes, 647
- GAZLEY, C. *See* CHARWAT, KELLY & GAZLEY
- GOLDGRABEN, J. RICHARD. *See* WEINBAUM & GOLDGRABEN
- HANRATTY, THOMAS J. *See* FORTUNA & HANRATTY
- HICKS, BRUCE L., YEN, SHEE-MANG & REILLY, BARBARA J. The internal structure of shock waves, 85
- HORNUNG, H. G. Non-equilibrium dissociating nitrogen flow over spheres and circular cylinders, 149
- HORSTMAN, C. C. *See* OWEN & HORSTMAN
- HUFFMAN, G. DAVID & BRADSHAW, PETER. A note on von Kármán's constant in low Reynolds number turbulent flows, 45
- HUNTER, C. On the calculation of wave patterns, 637

- HUNTLEY, IAN. Observations on a spatial-resonance phenomenon, 209
- IMBERGER, JORG. Two-dimensional sink flow of a stratified fluid contained in a duct, 329
- KAO, Y. S. & KENNING, D. B. R. Thermocapillary flow near a hemispherical bubble on a heated wall, 715
- KEFFER, J. F. *See* PALMER & KEFFER
- KELLY, R. E. *See* CHARWAT, KELLY & GAZLEY
- KENNING, D. B. R. *See* KAO & KENNING
- KLEMP, J. B. & ACRIVOS, ANDREAS. A method for integrating the boundary-layer equations through a region of reverse flow, 177
- KOVASZNAY, LESLIE S. G. *See* BLACKWELDER & KOVASZNAY
- LAVIE, A. M. Analysis of the swimming of elastic slender bodies excited by an external force, 701
- LUXTON, R. E. *See* ANTONIA & LUXTON
- MAHONY, J. J. & SMITH, RONALD. On a model representation for certain spatial-resonance phenomena, 193
- MARTIN, SEELYE, SIMMONS, WILLIAM & WUNSCH, CARL. The excitation of resonant triads by single internal waves, 17
- MILES, JOHN W. Internal waves in a sheeted thermocline, 557
- MILES, JOHN W. Axisymmetric rotating flow past a circular disk, 689
- MOFFATT, H. K. An approach to a dynamic theory of dynamo action in a rotating conducting fluid, 385
- MOLYNEUX, JOHN E. *See* ELTER & MOLYNEUX
- OWEN, F. K. & HORSTMAN, C. C. On the structure of hypersonic turbulent boundary layers, 611
- PALMER, M. D. & KEFFER, J. F. An experimental investigation of an asymmetrical turbulent wake, 593
- PHYTHIAN, R. Some variational methods in the theory of turbulent diffusion, 469
- PINSENT, H. Kelvin wave attenuation along nearly straight boundaries, 273
- RAO, A. RAMACHANDRA & DEVANATHAN, RATHNA. Flow of a stratified fluid in a wavy channel, 513
- REILLY, BARBARA J. *See* HICKS, YEN & REILLY
- REYNOLDS, WILLIAM C. *See* ZEREN & REYNOLDS
- RILEY, N. *See* DAVIDSON & RILEY
- ROSHKO, ANATOL. *See* DAVEY & ROSHKO
- SHEN, S. F. *See* ATASSI & SHEN
- SIMMONS, WILLIAM. *See* MARTIN, SIMMONS & WUNSCH
- SIMPSON, JOHN E. Effects of the lower boundary on the head of a gravity current, 759
- SMITH, RONALD. *See* MAHONY & SMITH
- TOKUDA, N. Viscous flow near a corner in three dimensions, 129
- TURNER, J. S. On the energy deficiency in self-preserving convective flows, 217
- WEINBAUM, SHELDON & GOLDGRABEN, J. RICHARD. On the movement of water and solute in extracellular channels with filtration, osmosis and active transport, 481
- WUNSCH, CARL. *See* MARTIN, SIMMONS & WUNSCH
- YEN, SHEE-MANG. *See* HICKS, YEN & REILLY
- ZEREN, RICHARD W. & REYNOLDS, WILLIAM C. Thermal instabilities in two-fluid horizontal layers, 305

REVIEWS

Thermodynamic Theory of Structures, Stability and Fluctuations, by P. Glansdorff and I. Prigogine, 400

Mechanics of Fluids, by J. W. Ireland, 587

A Textbook on Hydraulics and Fluid Mechanics, Volume I, by V. G. Garde and R. M. Advani, 587

Elements of Fluid Mechanics, by C. V. Seshadri and S. V. Patankar, 587

Hydronautics, edited by H. E. Sheets and V. T. Boatwright, 589

Flowing Gas – Solids Suspensions, by R. G. Boothroyd, 591