INDEX

Ahlers, G. See Brown & Ahlers

Barthelemy, E. See Mignot, Hurther & Barthelemy

Bassom, A. P. See Turner, Bassom & Gilbert

Brown, E. & Ahlers, G. The origin of oscillations of the large-scale circulation of turbulent Rayleigh–Bénard convection, 383–400

Bühler, O. & Holmes-Cerfon, M. Particle dispersion by random waves in rotating shallow water, 5–26

Chernyshenko, S. See Nikitin, Wang & Chernyshenko

Cvitanović, P. See Gibson, Halcrow & Cvitanović

Falkovich, G. Could waves mix the ocean?, 1-4

Fauci, L. J. See Musielak, Karp-Boss, Jumars & Fauci

Fife, P. See Klewicki, Fife & Wei

Frankel, I. See Gat, Frankel & Weihs

Gat, A. D., Frankel, I. & Weihs, D. A higher-order Hele-Shaw approximation with application to gas flows through shallow micro-channels, 141–160

Gibson, J. F., Halcrow, J. & Cvitanović, P. Equilibrium and travelling-wave solutions of plane Couette flow. 243–266

Gilbert, A. D. See Turner, Bassom & Gilbert

Gula, J., Zeitlin, V. & Plougonven, R. Instabilities of two-layer shallow-water flows with vertical shear in the rotating annulus, 27–47

Halcrow, J. See Gibson, Halcrow & Cvitanović

Hanazaki, H., Kashimoto, K. & Okamura, T. Jets generated by a sphere moving vertically in a stratified fluid, 173–197

Holmes-Cerfon, M. See Bühler & Holmes-Cerfon

Hurther, D. See Mignot, Hurther & Barthelemy

Jumars, P. A. See Musielak, Karp-Boss, Jumars & Fauci

Karp-Boss, L. See Musielak, Karp-Boss, Jumars & Fauci

Kashimoto, K. See Hanazaki, Kashimoto & Okamura

Kessler, D. A. See Short & Kessler

Klewicki, J., Fife, P. & Wei, T. On the logarithmic mean profile, 73-93

Krishnamurti, R. Heat, salt and momentum transport in a laboratory thermohaline staircase, 491–506

Mignot, E., Hurther, D. & Barthelemy, E. On the structure of shear stress and turbulent kinetic energy flux across the roughness layer of a gravel-bed channel flow, 423–452

Musculus, M. P. B. Entrainment waves in decelerating transient turbulent jets, 117-140

Musielak, M. M., Karp-Boss, L., Jumars, P. A. & Fauci, L. J. Nutrient transport and acquisition by diatom chains in a moving fluid, 401–421

Nikitin, N., Wang, H. & Chernyshenko, S. Turbulent flow and heat transfer in eccentric annulus, 95–116

Okamura, T. See Hanazaki, Kashimoto & Okamura

Pelekasis, N. See Vlachomitrou & Pelekasis

Index 509

Plougonven, R. See Gula, Zeitlin & Plougonven

Ricco, P. The pre-transitional Klebanoff modes and other boundary-layer disturbances induced by small-wavelength free-stream vorticity, 267-303

Riley, N., Sánchez-Sanz, M. & Watson, E. J. A planar pulsating jet, 161–172

Sánchez-Sanz, M. See Riley, Sánchez-Sanz & Watson

Short, M. & Kessler, D. A. Asymptotic and numerical study of variable-density premixed flame propagation in a narrow channel, 305-337

Tailleux, R. On the energetics of stratified turbulent mixing, irreversible thermodynamics, Boussinesq models and the ocean heat engine controversy, 339–382

Turner, M. R., Bassom, A. P. & Gilbert, A. D. Diffusion and the formation of vorticity staircases in randomly strained two-dimensional vortices, 49-72

Vlachomitrou, M. & Pelekasis, N. Nonlinear interaction between a boundary layer and a liquid film, 199-242

Wang, H. F. & Zhou, Y. The finite-length square cylinder near wake, 453–490

Wang, H. See Nikitin, Wang & Chernyshenko

Watson, E. J. See Riley, Sánchez-Sanz & Watson

Wei, T. See Klewicki, Fife & Wei

Weihs, D. See Gat, Frankel & Weihs

Zeitlin, V. See Gula, Zeitlin & Plougonven

Zhou, Y. See Wang & Zhou

https://doi.org/10.1017/50022112009992588 Published online by Cambridge University Press

New and Exciting Titles in Fluid Mechanics!

Electrokinetically Driven Microfluidics and Nanofluidics

Hsueh-Chia Chang and Leslie Yeo \$125.00: Hb: 978-0-521-86025-3: 544 pp.



The Scramjet Engine Processes and Characteristics Corin Segal

Cambridge Aerospace Series \$125.00: Hb: 978-0-521-83815-3: 270 pp.



Waves and Mean Flows

Waves and Mean Flows

Oliver Bühler

Cambridge Monographs on

Mechanics
\$99.00: Hb: 978-0-521-86636-1: 370 pp.

Fluid Dynamics and Transport of Droplets and Sprays

William Sirignano

\$115.00: Hb: 978-0-521-88489-1: 540 pp.



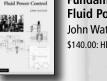
Sloshing

Odd M. Faltinsen and Alexander N. Timokha \$125.00: Hb: 978-0-521-88111-1: 608 pp.



Fundamentals of Fluid Power Control

John Watton \$140.00: Hb: 978-0-521-76250-2: 512 pp.



\$1 10.00.11b. 570 0 521 70250 2. 512 pp.

The Mechanics and Thermodynamics of Continua

Morton E. Gurtin, Eliot Fried, and Lallit Anand \$125.00: Hb: 978-0-521-40598-0: 565 pp.



Ocean Engineering Mechanics With Applications

Michael E. McCormick

\$125.00: Hb: 978-0-521-85952-3: 624 pp.

New in Paperback...

Fundamentals of Multiphase Flow

Christopher E. Brennen \$65.00: Pb: 978-0-521-13998-4: 368 pp.

Measurement in Fluid Mechanics

Stavros Tavoularis \$55.00: Pb: 978-0-521-13839-0: 368 pp.

Introduction to Computational Fluid Dynamics

Anil Date

\$65.00: Pb: 978-0-521-14005-8: 398 pp.



Principles of Continuum Mechanics

A Study of Conservation Principles with Applications

J. N. Reddy

\$99.00: Hb: 978-0-521-51369-2: 256 pp.

Prices subject to change.

Journal of Fluid Mechanics

- 1 Could waves mix the ocean?
 - G. Falkovich
- 5 Particle dispersion by random waves in rotating shallow water
 - O. Bühler & M. Holmes-Cerfon
- 27 Instabilities of two-layer shallow-water flows with vertical shear in the rotating annulus
 - J. Gula, V. Zeitlin & R. Plougonven
- 49 Diffusion and the formation of vorticity staircases in randomly strained two-dimensional vortices
 - M. R. Turner, A. P. Bassom & A. D. Gilbert
- 73 On the logarithmic mean profile
 - J. Klewicki, P. Fife & T. Wei
- 95 Turbulent flow and heat transfer in eccentric annulus
 - N. Nikitin, H. Wang & S. Chernyshenko
- 117 Entrainment waves in decelerating transient turbulent jets
 - M. P. B. Musculus
- 141 A higher-order Hele-Shaw approximation with application to gas flows through shallow micro-channels
 - A. D. Gat, I. Frankel & D. Weihs
- 161 A planar pulsating jet
 - N. Riley, M. Sánchez-Sanz & E. J. Watson
- 173 Jets generated by a sphere moving vertically in a stratified fluid
 - H. Hanazaki, K. Kashimoto & T. Okamura
- 199 Nonlinear interaction between a boundary layer and a liquid film
 - M. Vlachomitrou & N. Pelekasis
- 243 Equilibrium and travelling-wave solutions of plane Couette flow
 - J. F. Gibson, J. Halcrow & P. Cvitanović
- 267 The pre-transitional Klebanoff modes and other boundary-layer disturbances induced by small-wavelength free-stream vorticity
 - P. Ricco
- 305 Asymptotic and numerical study of variable-density premixed flame propagation in a narrow channel
 - M. Short & D. A. Kessler
- 339 On the energetics of stratified turbulent mixing, irreversible thermodynamics, Boussinesq models and the ocean heat engine controversy
 - R. Tailleux
- 383 The origin of oscillations of the large-scale circulation of turbulent Rayleigh-Bénard convection
 - E. Brown & G. Ahlers
- 401 Nutrient transport and acquisition by diatom chains in a moving fluid
 - M. M. Musielak, L. Karp-Boss, P. A. Jumars & L. J. Fauci
- 423 On the structure of shear stress and turbulent kinetic energy flux across the roughness layer of a gravel-bed channel flow
 - E. Mignot, D. Hurther & E. Barthelemy
- 453 The finite-length square cylinder near wake
 - H. F. Wang & Y. Zhou
- 491 Heat, salt and momentum transport in a laboratory thermohaline staircase
 - R. Krishnamurti
- 507 Erratum
- 508 INDEX TO VOLUME 638





