

INDEX

- Aidun, C. K.** *See* Wu & Aidun
- Barletta, A. & Nield, D. A.** Convection–dissipation instability in the horizontal plane Couette flow of a highly viscous fluid, 475–492
- Bassom, A. P.** *See* Thomas, Bassom & Davies
- Bennetts, L. G. & Williams, T. D.** Wave scattering by ice floes and polynyas of arbitrary shape, 5–35
- Bohr, T.** *See* Jensen, Bohr & Bruus
- Bruus, H.** *See* Jensen, Bohr & Bruus
- Cébron, D.** *See* Sauret, Cébron, Morize & Le Bars
- Davies, C.** *See* Thomas, Bassom & Davies
- Elsinga, G. E. & Marusic, I.** Universal aspects of small-scale motions in turbulence, 514–539
- Feng, L. H. & Wang, J. J.** Circular cylinder vortex-synchronization control with a synthetic jet positioned at the rear stagnation point, 232–259
- Feuillebois, F.** *See* Yahiaoui & Feuillebois
- Gamero-Castaño, M.** Energy dissipation in electrosprays and the geometric scaling of the transition region of cone–jets, 493–513
- Heil, M.** *See* Stewart, Heil, Waters & Jensen
- Horowitz, M. & Williamson, C. H. K.** Vortex-induced vibration of a rising and falling cylinder, 352–383
- Jensen, K. H., Bohr, T. & Bruus, H.** Self-consistent unstirred layers in osmotically driven flows, 197–208
- Jensen, O. E.** *See* Stewart, Heil, Waters & Jensen
- Juanes, R.** *See* MacMinn, Szulczewski & Juanes
- Le Bars, M.** *See* Sauret, Cébron, Morize & Le Bars
- Le Dizès, S.** *See* Parras & Le Dizès
- Lesshafft, L. & Marquet, O.** Optimal velocity and density profiles for the onset of absolute instability in jets, 398–408
- Li, H. & Yoda, M.** An experimental study of slip considering the effects of non-uniform colloidal tracer distributions, 269–287
- Linton, C. M.** Towards a three-dimensional model of wave–ice interaction in the marginal ice zone, 1–4
- MacMinn, C. W., Szulczewski, M. L. & Juanes, R.** CO₂ migration in saline aquifers. Part 1. Capillary trapping under slope and groundwater flow, 329–351
- Marquet, O.** *See* Lesshafft & Marquet
- Marusic, I.** *See* Elsinga & Marusic
- Meunier, P. & Villermaux, E.** The diffusive strip method for scalar mixing in two dimensions, 134–172
- Morize, C.** *See* Sauret, Cébron, Morize & Le Bars
- Nield, D. A.** *See* Barletta & Nield
- Or, A. C. & Speyer, J. L.** Empirical pseudo-balanced model reduction and feedback control of weakly nonlinear convection patterns, 36–65

- Park, J. S. & Saintillan, D.** Dipolophoresis in large-scale suspensions of ideally polarizable spheres, 66–90
- Parras, L. & Le Dizès, S.** Temporal instability modes of supersonic round jets, 173–196
- Saintillan, D.** *See* Park & Saintillan
- Sauret, A., Cébron, D., Morize, C. & Le Bars, M.** Experimental and numerical study of mean zonal flows generated by librations of a rotating spherical cavity, 260–268
- Silano, G., Sreenivasan, K. R. & Verzicco, R.** Numerical simulations of Rayleigh–Bénard convection for Prandtl numbers between 10^{-1} and 10^4 and Rayleigh numbers between 10^5 and 10^9 , 409–446
- Speyer, J. L.** *See* Or & Speyer
- Sreenivasan, K. R.** *See* Silano, Sreenivasan & Verzicco
- Stewart, P. S., Heil, M., Waters, S. L. & Jensen, O. E.** Sloshing and slamming oscillations in a collapsible channel flow, 288–319
- Stocchino, A.** Self-sustained double-diffusive interleaving, 384–397
- Su, W.-D.** *See* Yang, Su & Wu
- Sugiyama, K. & Takemura, F.** On the lateral migration of a slightly deformed bubble rising near a vertical plane wall, 209–231
- Szulczewski, M. L.** *See* MacMinn, Szulczewski & Juanes
- Takemura, F.** *See* Sugiyama & Takemura
- Thomas, C., Bassom, A. P. & Davies, C.** The linear stability of a Stokes layer with an imposed axial magnetic field, 320–328
- Verzicco, R.** *See* Silano, Sreenivasan & Verzicco
- Villermaux, E.** *See* Meunier & Villermaux
- Wang, J. J.** *See* Feng & Wang
- Waters, S. L.** *See* Stewart, Heil, Waters & Jensen
- Williams, T. D.** *See* Bennetts & Williams
- Williamson, C. H. K.** *See* Horowitz & Williamson
- Wu, J. & Aidun, C. K.** A numerical study of the effect of fibre stiffness on the rheology of sheared flexible fibre suspensions, 123–133
- Wu, J.-Z.** *See* Yang, Su & Wu
- Yahiaoui, S. & Feuillebois, F.** Lift on a sphere moving near a wall in a parabolic flow, 447–474
- Yang, Y.-T., Su, W.-D. & Wu, J.-Z.** Helical-wave decomposition and applications to channel turbulence with streamwise rotation, 91–122
- Yoda, M.** *See* Li & Yoda

CAMBRIDGE

New and Exciting Titles in Fluid Mechanics!

Particle Image Velocimetry

RONALD J. ADRIAN
and JERRY WESTERWEEEL

Cambridge Aerospace Series

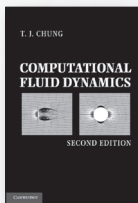
\$125.00: Hb: 978-0-521-44008-0: 584 pp.

Second Edition

Computational Fluid Dynamics

T. J. CHUNG

\$145.00: Hb: 978-0-521-76969-3: 1,056 pp.



Elastic Waves at High Frequencies

Techniques for Radiation
and Diffraction of Elastic and
Surface Waves

JOHN G. HARRIS

Cambridge Monographs on Mechanics

\$85.00: Hb: 978-0-521-87530-1: 182 pp.

Introductory Fluid Mechanics

JOSEPH KATZ

\$135.00: Hb: 978-0-521-19245-3: 456 pp.

Fluid-Structure Interactions Cross-Flow-Induced Instabilities

MICHAEL PAÏDOUSSIS,
STUART PRICE,
and EMMANUEL DE LANGRE

\$125.00: Hb: 978-0-521-11942-9: 396 pp.

NEW IN PAPERBACK

Hydrodynamics of High-Speed Marine Vehicles

ODD M. FALTINSEN

\$123.00: Hb: 978-0-521-84568-7: 474 pp.

\$65.00: Pb: 978-0-521-17873-0

Implicit Large Eddy Simulation

Computing Turbulent Fluid Dynamics

Edited by FERNANDO F. GRINSTEIN,
LEN G. MARGOLIN,
and WILLIAM J. RIDER

\$139.00: Hb: 978-0-521-86982-9: 560 pp.

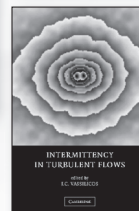
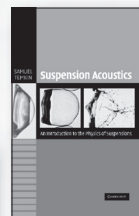
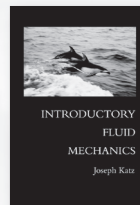
\$53.00: Pb: 978-0-521-17272-1

Turbulence Structure and Vortex Dynamics

Edited by J. C. R. HUNT
and J. C. VASSILICOS

\$179.00: Hb: 978-0-521-78131-2: 300 pp.

\$55.00: Pb: 978-0-521-17512-8



Advanced Transport Phenomena

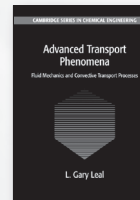
Fluid Mechanics and Convective
Transport Processes

L. GARY LEAL

*Cambridge Series in
Chemical Engineering*

\$155.00: Hb: 978-0-521-84910-4: 936 pp.

\$95.00: Pb: 978-0-521-17908-9



Mechanical Efficiency of Heat Engines

JAMES R. SENFT

\$120.00: Hb: 978-0-521-86880-8: 192 pp.

\$39.99: Pb: 978-0-521-16928-8

Suspension Acoustics

An Introduction to the
Physics of Suspensions

SAMUEL TEMKIN

\$149.00: Hb: 978-0-521-84757-5: 416 pp.

\$70.00: Pb: 978-0-521-17447-3

Intermittency in Turbulent Flows

Edited by J. C. VASSILICOS

\$137.00: Hb: 978-0-521-79221-9: 288 pp.

\$55.00: Pb: 978-0-521-15942-5

Prices subject to change.

www.cambridge.org/us/engineering
800.872.7423



CAMBRIDGE
UNIVERSITY PRESS

- 1 Towards a three-dimensional model of wave–ice interaction in the marginal ice zone
C. M. Linton
- 5 Wave scattering by ice floes and polynyas of arbitrary shape
L. G. Bennetts & T. D. Williams
- 36 Empirical pseudo-balanced model reduction and feedback control of weakly nonlinear convection patterns
A. C. Or & J. L. Speyer
- 66 Dipolophoresis in large-scale suspensions of ideally polarizable spheres
J. S. Park & D. Saintillan
- 91 Helical-wave decomposition and applications to channel turbulence with streamwise rotation
Y.-T. Yang, W.-D. Su & J.-Z. Wu
- 123 A numerical study of the effect of fibre stiffness on the rheology of sheared flexible fibre suspensions
J. Wu & C. K. Aidun
- 134 The diffusive strip method for scalar mixing in two dimensions
P. Meunier & E. Villermaux
- 173 Temporal instability modes of supersonic round jets
L. Parras & S. L. Dizès
- 197 Self-consistent unstirred layers in osmotically driven flows
K. H. Jensen, T. Bohr & H. Bruus
- 209 On the lateral migration of a slightly deformed bubble rising near a vertical plane wall
K. Sugiyama & F. Takemura
- 232 Circular cylinder vortex-synchronization control with a synthetic jet positioned at the rear stagnation point
L. H. Feng & J. J. Wang
- 260 Experimental and numerical study of mean zonal flows generated by librations of a rotating spherical cavity
A. Sauret, D. Cébron, C. Morize & M. Le Bars
- 269 An experimental study of slip considering the effects of non-uniform colloidal tracer distributions
H. Li & M. Yoda
- 288 Sloshing and slamming oscillations in a collapsible channel flow
P. S. Stewart, M. Heil, S. L. Waters & O. E. Jensen
- 320 The linear stability of a Stokes layer with an imposed axial magnetic field
C. Thomas, A. P. Bassom & C. Davies
- 329 CO₂ migration in saline aquifers. Part 1. Capillary trapping under slope and groundwater flow
C. W. MacMinn, M. L. Szulczewski & R. Juanes
- 352 Vortex-induced vibration of a rising and falling cylinder
M. Horowitz & C. H. K. Williamson
- 384 Self-sustained double-diffusive interleaving
A. Stocchino
- 398 Optimal velocity and density profiles for the onset of absolute instability in jets
L. Lesshafft & O. Marquet
- 409 Numerical simulations of Rayleigh–Bénard convection for Prandtl numbers between 10⁻¹ and 10⁴ and Rayleigh numbers between 10⁵ and 10⁹
G. Silano, K. R. Sreenivasan & R. Verzicco
- 447 Lift on a sphere moving near a wall in a parabolic flow
S. Yahiaoui & F. Feuillebois
- 475 Convection–dissipation instability in the horizontal plane Couette flow of a highly viscous fluid
A. Barletta & D. A. Nield
- 493 Energy dissipation in electrospays and the geometric scaling of the transition region of cone–jets
M. Gamero-Castaño
- 514 Universal aspects of small-scale motions in turbulence
G. E. Elsinga & I. Marusic
- 540 INDEX TO VOLUME 662

