

INDEX

- Alfredsson, P. H.** *See* Lögberg, Fransson & Alfredsson
- Breuer M.** *See* Schäfer, Breuer & Durst
- Chang, C. C.** *See* Hsieh, Chang & Chu
- Chu, C.-C.** *See* Hsieh, Chang & Chu
- Coffey, C. J.** *See* Hunt & Coffey
- Colonius, T.** *See* Taira & Colonius
- Dabiri, J. O.** *See* Peng & Dabiri
- David, S.** *See* Dunn, Wilson, Duffy, David, & Sefiane
- Duffy, B. R.** *See* Dunn, Wilson, Duffy, David & Sefiane
- Dunn, G. J., Wilson, S. K., Duffy, B. R., David, S. & Sefiane, K.** The strong influence of substrate conductivity on droplet evaporation, 329–351
- Durst, F.** *See* Schäfer, Breuer & Durst
- Ehrenmark, U. T.** On the normal incidence of linear waves over a plane incline partially covered by a rigid lid, 209–240
- Fransson, J. H. M.** *See* Lögberg, Fransson & Alfredsson
- Garzó, V., Reyes, F. V. & Montanero, J. M.** Modified Sonine approximation for granular binary mixtures, 387–411
- Gellert, M. & Rüdiger, G.** Stratorotational instability in Taylor–Couette flow heated from above, 375–385
- Günther, B.** *See* Luchtenburg, Günther, Noack, King & Tadmor
- Hammerton, P. W.** *See* Turner & Hammerton
- Healey, J. J.** Destabilizing effects of confinement on homogeneous mixing layers, 241–271
- Hsieh, C.-T., Chang, C. C. & Chu, C.-C.** Revisiting the aerodynamics of hovering flight using simple models, 121–148
- Hunt, G. R. & Coffey, C. J.** Characterising line fountains, 317–327
- King, R.** *See* Luchtenburg, Günther, Noack, King & Tadmor
- Lögberg, O., Fransson, J. H. M. & Alfredsson, P. H.** Streamwise evolution of longitudinal vortices in a turbulent boundary layer, 27–58
- Luchtenburg, D. M., Günther, B., Noack, B. R., King, R. & Tadmor, G.** A generalized mean-field model of the natural and high-frequency actuated flow around a high-lift configuration, 283–316
- Ma, R., Slaboch, P. E. & Morris, S. C.** Fluid mechanics of the flow-excited Helmholtz resonator, 1–26
- Montanero, J. M.** *See* Garzó, Reyes & Montanero
- Morris, S. C.** *See* Ma, Slaboch & Morris
- Mott, R. W. & Woods, A. W.** On the mixing of a confined stratified fluid by a turbulent buoyant plume, 149–165
- Natarov, A. & Richards, K. J.** Three-dimensional instabilities of oscillatory equatorial zonal shear flows, 59–74
- Nickels, T. B.** Equilibrium turbulent boundary layers with lateral streamline convergence or divergence, 273–281
- Noack, B. R.** *See* Luchtenburg, Günther, Noack, King & Tadmor

- Orlandi, P.** Energy spectra power laws and structures, 353–374
- Peng, J. & Dabiri, J. O.** Transport of inertial particles by Lagrangian coherent structures: application to predator–prey interaction in jellyfish feeding, 75–84
- Reyes, F. V.** *See* Garzó, Reyes & Montanero
- Richards, K. J.** *See* Natarov & Richards
- Rüdiger, G.** *See* Gellert & Rüdiger
- Schäfer, F., Breuer M. & Durst, F.** The dynamics of the transitional flow over a backward-facing step, 85–119
- Sefiane, K.** *See* Dunn, Wilson, Duffy, David & Sefiane
- Slaboch, P. E.** *See* Ma, Slaboch & Morris
- Tadmor, G.** *See* Luchtenburg, Günther, Noack, King & Tadmor
- Taira, K. & Colonius, T.** Three-dimensional flows around low-aspect-ratio flat-plate wings at low Reynolds numbers, 187–207
- Turner, M. R. & Hammerton, P. W.** Analysis of the unstable Tollmien–Schlichting mode on bodies with a rounded leading edge using the parabolized stability equation, 167–185
- Wilson, S. K.** *See* Dunn, Wilson, Duffy, David, & Sefiane
- Woods, A. W.** *See* Mott & Woods

CAMBRIDGE

New and Exciting Titles!

Diffusion

Mass Transfer in Fluid Systems

E. L. Cussler

Cambridge Series in Chemical Engineering

\$80.00; Hb: 978-0-521-87121-1; 654 pp.

3rd
Edition

Multimedia

Fluid Mechanics

Edited by G. M. Homsy

\$24.99; DVD ROM: 978-0-521-72169-1

2nd
Edition

Polymer Melt Processing

Foundations in Fluid Mechanics and Heat Transfer

Morton M. Denn

Cambridge Series in Chemical Engineering

\$99.00; Hb: 978-0-521-89969-7; 264 pp.

Heat Transfer Physics

Massoud Kaviany

\$125.00; Hb: 978-0-521-89897-3; 688 pp.

Fluid Dynamics with a Computational Perspective

Paul A. Durbin and Gorazd Medic

\$99.00; Hb: 978-0-521-85017-9; 362 pp.

Heat Transfer

Gregory Nellis and Sanford Klein

\$155.00; Hb: 978-0-521-88107-4; 1,152 pp.

Plasma Chemistry

Alexander Fridman

\$170.00; Hb: 978-0-521-84735-3; 1,024 pp.

An Introduction to Granular Flow

K. Kesava Rao and Prabhu R. Nott

Cambridge Series in Chemical Engineering

\$120.00; Hb: 978-0-521-57166-1; 512 pp.

Partial Differential Equations in Fluid Dynamics

Isom H. Herron and Michael R. Foster

\$90.00; Hb: 978-0-521-88824-0; 296 pp.

Homogeneous Turbulence Dynamics

Pierre Sagaut and Claude Cambon

\$120.00; Hb: 978-0-521-85548-8; 480 pp.

Prices subject to change.



www.cambridge.org/us/engineering



CAMBRIDGE
UNIVERSITY PRESS

1584 • 2009

425 YEARS OF CAMBRIDGE
PRINTING AND PUBLISHING

- 1 Fluid mechanics of the flow-excited Helmholtz resonator
R. Ma, P. E. Slaboch & S. C. Morris
- 27 Streamwise evolution of longitudinal vortices in a turbulent boundary layer
O. Lögdberg, J. H. M. Fransson & P. H. Alfredsson
- 59 Three-dimensional instabilities of oscillatory equatorial zonal shear flows
A. Natarov & K. J. Richards
- 75 Transport of inertial particles by Lagrangian coherent structures: application to predator–prey interaction in jellyfish feeding
J. Peng & J. O. Dabiri
- 85 The dynamics of the transitional flow over a backward-facing step
F. Schäfer, M. Breuer & F. Durst
- 121 Revisiting the aerodynamics of hovering flight using simple models
C.-T. Hsieh, C. C. Chang & C.-C. Chu
- 149 On the mixing of a confined stratified fluid by a turbulent buoyant plume
R. W. Mott & A. W. Woods
- 167 Analysis of the unstable Tollmien–Schlichting mode on bodies with a rounded leading edge using the parabolized stability equation
M. R. Turner & P. W. Hammerton
- 187 Three-dimensional flows around low-aspect-ratio flat-plate wings at low Reynolds numbers
K. Taira & T. Colonius
- 209 On the normal incidence of linear waves over a plane incline partially covered by a rigid lid
U. T. Ehrenmark
- 241 Destabilizing effects of confinement on homogeneous mixing layers
J. J. Healey
- 273 Equilibrium turbulent boundary layers with lateral streamline convergence or divergence
T. B. Nickels
- 283 A generalized mean-field model of the natural and high-frequency actuated flow around a high-lift configuration
D. M. Luchtenburg, B. Günther, B. R. Noack, R. King & G. Tadmor
- 317 Characterising line fountains
G. R. Hunt & C. J. Coffey
- 329 The strong influence of substrate conductivity on droplet evaporation
G. J. Dunn, S. K. Wilson, B. R. Duffy, S. David & K. Sefiane
- 353 Energy spectra power laws and structures
P. Orlandi
- 375 Stratorotational instability in Taylor–Couette flow heated from above
M. Gellert & G. Rüdiger
- 387 Modified Sonine approximation for granular binary mixtures
V. Garzó, F. V. Reyes & J. M. Montanero
- 412 INDEX TO VOLUME 623

Cambridge Journals Online

For further information about this journal please
go to the journal web site at
journals.cambridge.org/flm



Mixed Sources
Product group from well-managed
forests and other controlled sources

Cert no. SGS-COC-005493
www.fsc.org
© 1996 Forest Stewardship Council

CAMBRIDGE
UNIVERSITY PRESS