

INDEX

- Ben-Dor, G.** *See* Leinov, Malamud, Elbaz, Levin, Ben-Dor, Shvarts & Sadot
- Bonilla, L. L.** *See* Neu, Carpio & Bonilla
- Bush, J. W. M.** *See* Savva & Bush
- Carpio, A.** *See* Neu, Carpio & Bonilla
- Chen, Q., Otte, M. J., Sullivan, P. P. & Tong, C.** *A posteriori* subgrid-scale model tests based on the conditional means of subgrid-scale stress and its production rate, 149–181
- Cochran, J. & Krstic, M.** Motion planning and trajectory tracking for three-dimensional Poiseuille flow, 307–332
- Craik, A. D. D.** Exact vortex solutions of the Navier–Stokes equations with axisymmetric strain and suction or injection, 291–306
- Dahlkild, A. A.** *See* Parsheh & Dahlkild
- Elbaz, Y.** *See* Leinov, Malamud, Elbaz, Levin, Ben-Dor, Shvarts & Sadot
- Higuera, M. & Vega, J. M.** Modal description of internal optimal streaks, 21–31
- Hwung, H.-H., Yang, R.-Y. & Shugan, I. V.** Exposure of internal waves on the sea surface, 1–20
- Kas-Danouche, S. A., Papageorgiou, D. T. & Siegel, M.** Nonlinear dynamics of core-annular film flows in the presence of surfactant, 415–448
- Knaus, R. & Pantano, C.** On the effect of heat release in turbulence spectra of non-premixed reacting shear layers, 67–109
- Krstic, M.** *See* Cochran & Krstic
- Lavrenteva, O. M.** *See* Rosenfeld, Lavrenteva & Nir
- Leinov, E., Malamud, G., Elbaz, Y., Levin, L. A., Ben-Dor, G., Shvarts, D. & Sadot, O.** Experimental and numerical investigation of the Richtmyer–Meshkov instability under re-shock conditions, 449–475
- Levin, L. A.** *See* Leinov, Malamud, Elbaz, Levin, Ben-Dor, Shvarts & Sadot
- Mählmann, S. & Papageorgiou, D. T.** Numerical study of electric field effects on the deformation of two-dimensional liquid drops in simple shear flow at arbitrary Reynolds number, 367–393
- Malamud, G.** *See* Leinov, Malamud, Elbaz, Levin, Ben-Dor, Shvarts & Sadot
- Martins-Rivas, H. & Mei, C. C.** Wave power extraction from an oscillating water column at the tip of a breakwater, 395–414
- Mei, C. C.** *See* Martins-Rivas & Mei
- Mellado, J. P., Wang, L. & Peters, N.** Gradient trajectory analysis of a scalar field with external intermittency, 333–365
- Neu, J. C., Carpio, A. & Bonilla, L. L.** Theory of surface deposition from boundary layers containing condensable vapour and particles, 183–210
- Nir, A.** *See* Rosenfeld, Lavrenteva & Nir
- Otte, M. J.** *See* Chen, Otte, Sullivan & Tong
- Pantano, C.** *See* Knaus & Pantano
- Papageorgiou, D. T.** *See* Kas-Danouche, Papageorgiou & Siegel
- Papageorgiou, D. T.** *See* Mählmann & Papageorgiou
- Parsheh, M. & Dahlkild, A. A.** Evolution of flat-plate wakes in sink flow, 241–262
- Peters, N.** *See* Mellado, Wang & Peters

- Rosenfeld, L., Lavrenteva, O. M. & Nir, A.** On the thermocapillary motion of partially engulfed compound drops, 263–289
- Sadot, O.** *See* Leinov, Malamud, Elbaz, Levin, Ben-Dor, Shvarts & Sadot
- Saha, S.** *See* Zaki & Saha
- Savva, N. & Bush, J. W. M.** Viscous sheet retraction, 211–240
- Shugan, I. V.** *See* Hwung, Yang & Shugan
- Shvarts, D.** *See* Leinov, Malamud, Elbaz, Levin, Ben-Dor, Shvarts & Sadot
- Siegel, M.** *See* Kas-Danouche, Papageorgiou & Siegel
- Sullivan, P. P.** *See* Chen, Otte, Sullivan & Tong
- Swaters, G. E.** Mixed bottom-friction–Kelvin–Helmholtz destabilization of source-driven abyssal overflows in the ocean, 33–66
- Tong, C.** *See* Chen, Otte, Sullivan & Tong
- Vega, J. M.** *See* Higuera & Vega
- Wang, L.** *See* Mellado, Wang & Peters
- Yang, R.-Y.** *See* Hwung, Yang & Shugan
- Zaki, T. A. & Saha, S.** On shear sheltering and the structure of vortical modes in single- and two-fluid boundary layers, 111–147

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 Exposure of internal waves on the sea surface
H.-H. Hwung, R.-Y. Yang & I. V. Shugan
- 21 Modal description of internal optimal streaks
M. Higuera & J. M. Vega
- 33 Mixed bottom-friction–Kelvin–Helmholtz destabilization of source-driven abyssal overflows in the ocean
G. E. Swaters
- 67 On the effect of heat release in turbulence spectra of non-premixed reacting shear layers
R. Knaus & C. Pantano
- 111 On shear sheltering and the structure of vortical modes in single- and two-fluid boundary layers
T. A. Zaki & S. Saha
- 149 *A posteriori* subgrid-scale model tests based on the conditional means of subgrid-scale stress and its production rate
Q. Chen, M. J. Otte, P. P. Sullivan & C. Tong
- 183 Theory of surface deposition from boundary layers containing condensable vapour and particles
J. C. Neu, A. Carpio & L. L. Bonilla
- 211 Viscous sheet retraction
N. Savva & J. W. M. Bush
- 241 Evolution of flat-plate wakes in sink flow
M. Parsheh & A. A. Dahlkild
- 263 On the thermocapillary motion of partially engulfed compound drops
L. Rosenfeld, O. M. Lavrenteva & A. Nir
- 291 Exact vortex solutions of the Navier–Stokes equations with axisymmetric strain and suction or injection
A. D. D. Craik
- 307 Motion planning and trajectory tracking for three-dimensional Poiseuille flow
J. Cochran & M. Krstic
- 333 Gradient trajectory analysis of a scalar field with external intermittency
J. P. Mellado, L. Wang & N. Peters
- 367 Numerical study of electric field effects on the deformation of two-dimensional liquid drops in simple shear flow at arbitrary Reynolds number
S. Mählmann & D. T. Papageorgiou
- 395 Wave power extraction from an oscillating water column at the tip of a breakwater
H. Martins-Rivas & C. C. Mei
- 415 Nonlinear dynamics of core-annular film flows in the presence of surfactant
S. A. Kas-Danouche, D. T. Papageorgiou & M. Siegel
- 449 Experimental and numerical investigation of the Richtmyer–Meshkov instability under re-shock conditions
E. Leinov, G. Malamud, Y. Elbaz, L. A. Levin, G. Ben-Dor, D. Shvarts & O. Sadot
- 476 INDEX TO VOLUME 626