

INDEX

- Ancey, C.** *See* Gray & Ancey
- Arthur, J. K., Ruth, D. W. & Tachie, M. F.** PIV measurements of flow through a model porous medium with varying boundary conditions, 343–374
- Barros, R.** *See* Choi, Barros & Jo
- Blondeaux, P.** *See* Van Oyen & Blondeaux
- Bodenschatz, E.** *See* Ouellette, Xu & Bodenschatz
- Borggaard, J. T.** *See* Hay, Borggaard & Pelletier
- Casciola, C. M.** *See* Gualtieri, Picano & Casciola
- Choi, W., Barros, R. & Jo, T.-C.** A regularized model for strongly nonlinear internal solitary waves, 73–85
- Colonius, T.** *See* Johnsen & Colonius
- Craster, R. V., Matar, O. K. & Papageorgiou, D. T.** Breakup of surfactant-laden jets above the critical micelle concentration, 195–219
- Debiève, J. F.** *See* Piponnier, Dussauge, Debiève & Dupont
- Derzho, O. & Grimshaw, R.** On vorticity waves propagating in a waveguide formed by two critical layers, 161–171
- Diwan, S. S. & Ramesh, O. N.** On the origin of the inflectional instability of a laminar separation bubble, 263–298
- Dupont, P.** *See* Piponnier, Dussauge, Debiève & Dupont
- Dussauge, J. P.** *See* Piponnier, Dussauge, Debiève & Dupont
- Felderhof, B. U.** Flow of a viscous incompressible fluid after a sudden point impulse near a wall, 425–443
- Gray, J. M. N. T. & Ancey, C.** Segregation, recirculation and deposition of coarse particles near two-dimensional avalanche fronts, 387–423
- Grimshaw, R.** *See* Derzho & Grimshaw
- Gualtieri, P., Picano, F. & Casciola, C. M.** Anisotropic clustering of inertial particles in homogeneous shear flow, 25–39
- Hay, A., Borggaard, J. T. & Pelletier, D.** Local improvements to reduced-order models using sensitivity analysis of the proper orthogonal decomposition, 41–72
- Heaton, C. J., Nichols, J. W. & Schmid, P. J.** Global linear stability of the non-parallel Batchelor vortex, 139–160
- Jellinek, A. M. & Lenardic, A.** Effects of spatially varying roof cooling on thermal convection at high Rayleigh number in a fluid with a strongly temperature-dependent viscosity, 109–138
- Jo, T.-C.** *See* Choi, Barros & Jo
- Johnsen, E. & Colonius, T.** Numerical simulations of non-spherical bubble collapse, 231–262
- Johnson, E. R.** *See* Page & Johnson
- Komori, S.** *See* Sugioka & Komori
- Lenardic, A.** *See* Jellinek & Lenardic
- Li, F.** *See* Si, Li, Yin & Yin
- Matar, O. K.** *See* Craster, Matar & Papageorgiou
- Nichols, J. W.** *See* Heaton, Nichols & Schmid
- Ouellette, N. T., Xu, H. & Bodenschatz, E.** Bulk turbulence in dilute polymer solutions, 375–385

- Van Oyen, T. & Blondeaux, P.** Grain sorting effects on the formation of tidal sand waves, 311–342
- Page, M. A. & Johnson, E. R.** Steady nonlinear diffusion-driven flow, 299–309
- Papageorgiou, D. T.** *See* Craster, Matar & Papageorgiou
- Pelletier, D.** *See* Hay, Borggaard & Pelletier
- Picano, F.** *See* Gualtieri, Picano & Casciola
- Piponniau, S., Dussauge, J. P., Debiève, J. F. & Dupont, P.** A simple model for low-frequency unsteadiness in shock-induced separation, 87–108
- Ramesh, O. N.** *See* Diwan & Ramesh
- Ruth, D. W.** *See* Arthur, Ruth & Tachie
- Schmid, P. J.** *See* Heaton, Nichols & Schmid
- Si, T., Li, F., Yin, X.-Y. & Yin, X.-Z.** Modes in flow focusing and instability of coaxial liquid–gas jets, 1–23
- Sugioka, K.-I. & Komori, S.** Drag and lift forces acting on a spherical gas bubble in homogeneous shear liquid flow, 173–193
- Tachie, M. F.** *See* Arthur, Ruth & Tachie
- Winters, K. B. & Young, W. R.** Available potential energy and buoyancy variance in horizontal convection, 221–230
- Xu, H.** *See* Ouellette, Xu & Bodenschatz
- Yin, X.-Y.** *See* Si, Li, Yin & Yin
- Yin, X.-Z.** *See* Si, Li, Yin & Yin
- Young, W. R.** *See* Winters & Young

CAMBRIDGE

Fantastic New and Forthcoming Titles from Cambridge!

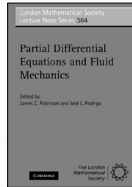
Forthcoming...

Partial Differential Equations and Fluid Mechanics

Edited by James C. Robinson and José L. Rodrigo

London Mathematical Society Lecture Note Series

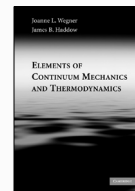
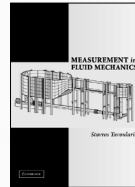
\$60.00; Pb: 978-0-521-12512-3; 300 pp.



Measurement in Fluid Mechanics

Stavros Tavoularis

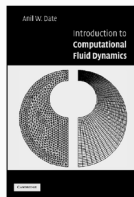
\$60.00; Pb: 978-0-521-13839-0; 368 pp.



Elements of Continuum Mechanics and Thermodynamics

Joanne L. Wegner and James B. Haddow

\$99.00; Hb: 978-0-521-86632-3; 280 pp.



Forthcoming...

Introduction to Computational Fluid Dynamics

Anil Date

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

Introduction to Continuum Mechanics

Sudhakar Nair

\$95.00; Hb: 978-0-521-87562-2; 252 pp.

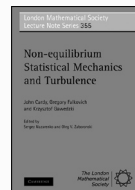
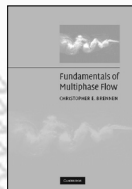


Forthcoming...

Fundamentals of Multiphase Flow

Christopher Brennen

\$65.00; Pb: 978-0-521-13998-4; 368 pp.

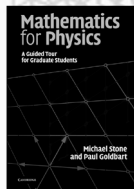


Non-equilibrium Statistical Mechanics and Turbulence

John Cardy, Gregory Falkovich, Krzysztof Gawedzki Edited by Sergey Nazarenko and Oleg V. Zaboronski

London Mathematical Society Lecture Note Series

\$52.00; Pb: 978-0-521-71514-0; 172 pp.



Forthcoming...

Mathematics for Physics

A Guided Tour for Graduate Students

Michael Stone and Paul Goldbart

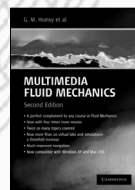
\$90.00; Hb: 978-0-521-85403-0; 760 pp.

Multimedia Fluid Mechanics

Edited by G. M. Homsy

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

2nd Edition!



Non-linear Modeling and Analysis of Solids and Structures

Steen Krenk

\$80.00; Hb: 978-0-521-83054-6; 370 pp.



Prices subject to change.

www.cambridge.org/us/mathematics



CAMBRIDGE UNIVERSITY PRESS

1584 • 2009

425 YEARS OF CAMBRIDGE PRINTING AND PUBLISHING

- 1 Modes in flow focusing and instability of coaxial liquid–gas jets
T. Si, F. Li, X.-Y. Yin & X.-Z. Yin
- 25 Anisotropic clustering of inertial particles in homogeneous shear flow
P. Gualtieri, F. Picano & C. M. Casciola
- 41 Local improvements to reduced-order models using sensitivity analysis of the proper orthogonal decomposition
A. Hay, J. T. Borggaard & D. Pelletier
- 73 A regularized model for strongly nonlinear internal solitary waves
W. Choi, R. Barros & T.-C. Jo
- 87 A simple model for low-frequency unsteadiness in shock-induced separation
S. Piponniau, J. P. Dussauge, J. F. Debève & P. Dupont
- 109 Effects of spatially varying roof cooling on thermal convection at high Rayleigh number in a fluid with a strongly temperature-dependent viscosity
A. M. Jellinek & A. Lenardic
- 139 Global linear stability of the non-parallel Batchelor vortex
C. J. Heaton, J. W. Nichols & P. J. Schmid
- 161 On vorticity waves propagating in a waveguide formed by two critical layers
O. Derzho & R. Grimshaw
- 173 Drag and lift forces acting on a spherical gas bubble in homogeneous shear liquid flow
K.-I. Sugioka & S. Komori
- 195 Breakup of surfactant-laden jets above the critical micelle concentration
R. V. Craster, O. K. Matar & D. T. Papageorgiou
- 221 Available potential energy and buoyancy variance in horizontal convection
K. B. Winters & W. R. Young
- 231 Numerical simulations of non-spherical bubble collapse
E. Johnsen & T. Colonius
- 263 On the origin of the inflectional instability of a laminar separation bubble
S. S. Diwan & O. N. Ramesh
- 299 Steady nonlinear diffusion-driven flow
M. A. Page & E. R. Johnson
- 311 Grain sorting effects on the formation of tidal sand waves
T. Van Oyen & P. Blondeaux
- 343 PIV measurements of flow through a model porous medium with varying boundary conditions
J. K. Arthur, D. W. Ruth & M. F. Tachie
- 375 Bulk turbulence in dilute polymer solutions
N. T. Ouellette, H. Xu & E. Bodenschatz
- 387 Segregation, recirculation and deposition of coarse particles near two-dimensional avalanche fronts
J. M. N. T. Gray & C. Ancey
- 425 Flow of a viscous incompressible fluid after a sudden point impulse near a wall
B. U. Felderhof
- 444 INDEX TO VOLUME 629

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. SA-COC-1527
www.fsc.org
© 1996 Forest Stewardship Council

CAMBRIDGE
UNIVERSITY PRESS