

CAMBRIDGE
UNIVERSITY PRESS

10 March 2009

Journal of Fluid Mechanics

VOLUME 622



- 1 Direct and adjoint global modes of a recirculation bubble: lift-up and convective non-normalities
O. Marquet, M. Lombardi, J.-M. Chomaz, D. Sipp & L. Jacquin
- 23 A model for the symmetry breaking of the reverse Bénard–von Kármán vortex street produced by a flapping foil
R. Godoy-Diana, C. Marais, J.-L. Aider & J. E. Wesfreid
- 33 Three-dimensional instantaneous structure of a shock wave/turbulent boundary layer interaction
R. A. Humble, G. E. Elsinga, F. Scarano & B. W. van Oudheusden
- 63 The onset of convection in rotating circular cylinders with experimental boundary conditions
K. Zhang & X. Liao
- 75 Unsteady natural convection in a triangular enclosure induced by absorption of radiation – a revisit by improved scaling analysis
Y. Mao, C. Lei & J. C. Patterson
- 103 On the equilibration of a symmetrically unstable front via a secondary shear instability
J. R. Taylor & R. Ferrari
- 115 Phase-field model for the Rayleigh–Taylor instability of immiscible fluids
A. Celani, A. Mazzino, P. Muratore-Ginanneschi & L. Vozella
- 135 Axisymmetric viscous gravity currents flowing over a porous medium
M. J. Spannuth, J. A. Neufeld, J. S. Wettlaufer & M. G. Worster
- 145 A mechanism for oscillatory instability in viscoelastic cross-slot flow
L. Xi & M. D. Graham
- 167 The universal structure of high-curvature regions of material lines in chaotic flows
A. Leonard
- 177 Dye visualization near a three-dimensional stagnation point: application to the vortex breakdown bubble
M. Brøns, M. C. Thompson & K. Hourigan
- 195 Boundary effects on electro-magneto-phoresis
E. Yariv & T. Miloh
- 209 The cross-flow instability of the boundary layer on a rotating cone
S. J. Garrett, Z. Hussain & S. O. Stephen
- 233 A generalized vortex ring model
F. Kaplanski, S. S. Sazhin, Y. Fukumoto, S. Begg & M. Heikal
- 259 Direct numerical simulation of the pulsatile flow through an aortic bileaflet mechanical heart valve
M. D. de Tullio, A. Cristallo, E. Balaras & R. Verzicco
- 291 Pulsatile flow in stenotic geometries: flow behaviour and stability
M. D. Griffith, T. Leweke, M. C. Thompson & K. Hourigan
- 321 On pressure invariance, wake width and drag prediction of a bluff body in confined flow
W. W. H. Yeung
- 345 Asymptotic model for the dynamics of curved viscous fibres with surface tension
N. Marheineke & R. Wegener
- 371 Numerical study of the effects of the breaking intensity on wave breaking flows
A. Iafrati
- 412 INDEX TO VOLUME 622

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