CAMBRIDGE JOURNALS

Go Mobile

CJO Mobile (CJOm) is a streamlined Cambridge Journals Online (CJO) for smartphones and other small mobile devices

- Use CJOm to access all journal content including *FirstView* articles which are published online ahead of print
- Access quickly and easily thanks to simplified design and low resolution images
- Register for content alerts or save searches and articles – they will be available on both CJO and CJOm
- Your device will be detected and automatically directed to CJOm via: journals.cambridge.org

CAMBRIDGE UNIVERSITY PRESS

https://doi.org/10.1017/jfm.2012.407 Published online by Cambridge University Press

369 On the role of vortex stretching in energy optimal growth of three-dimensional perturbations on plane parallel shear flows
H. Vitoshkin, E. Heifetz, A. Yu. Gelfgat & N. Harnik

381 Radiative instability of an anticyclonic vortex in a stratified rotating fluid
J. Park & P. Billant

393 On the competition between lateral convection and upward displacement in a multi-zone naturally ventilated space
A. S. Kuesters & A. W. Woods

405 Inertial dynamics of air bubbles crossing a horizontal fluid–fluid interface
R. Bonhomme, J. Magnaudet, F. Duval & B. Piar

444 Dynamics of a high-Reynolds-number bubble rising within a thin gap
V. Roig, M. Roudet, F. Risso & A.-M. Billet

467 On the periodic injection of fluid into, and its extraction from, a porous medium for seasonal heat storage
P. Dudfield & A. W. Woods

482 The appearance of boundary layers and drift flows due to high-frequency surface waves
O. Manor, L. Y. Yeo & J. R. Friend

S 496 Delaying the onset of dynamic wetting failure through meniscus confinement
E. Vandre, M. S. Carvalho & S. Kumar

521 The dynamics of three-dimensional liquid bridges with pinned and moving contact lines
S. Dodds, M. S. Carvalho & S. Kumar

541 Three-dimensional vortex structure on a rotating wing
C. A. Ozen & D. Rockwell

551 Three-dimensional flow in circular cavities of large spanwise aspect ratio
O. Tutty, R. Savelsberg & I. P. Castro

575 A theory for the streamwise turbulent fluctuations in high Reynolds number pipe flow
M. Hultmark

585 Fully nonlinear local induction equation describing the motion of a vortex filament in superfluid ^{4}He
R. A. Van Gorder

S 595 Local temperature perturbations of the boundary layer in the regime of free viscous–inviscid interaction
M. V. Koroteev & I. I. Lipatov

S indicates supplementary data or movies available online.

https://doi.org/10.1017/jfm.2012.407 Published online by Cambridge University Press

707

ISSN 0022-1120

Journal of Fluid Mechanics

25 September 2012

1 Quasi-steady states in natural displacement ventilation driven by periodic gusting of wind
R. W. Mott & A. W. Woods

24 The steady oblique path of buoyancy-driven disks and spheres
D. Fabre, J. Tchoufag & J. Magnaudet

37 Experimental characterization of three-dimensional corner flows at low Reynolds numbers
J. Sznitman, L. Guglielmini, D. Clifton, D. Scobee, H. A. Stone & A. J. Smits

53 Disturbance energy transport and sound production in gaseous combustion
M. J. Brear, F. Nicoud, M. Talei, A. Giauque & E. R. Hawkes

74 Evolution of enstrophy in shock/homogeneous turbulence interaction
K. Sinha

111 The mean electromotive force generated by elliptic instability
K. A. Mizerski, K. Bajer & H. K. Moffatt

129 Flexible ring flapping in a uniform flow
B. Kim, W.-X. Huang, S. J. Shin & H. J. Sung

150 Nonlinear interaction of wind-driven oblique surface waves and parametric growth of lower frequency modes
S. S. Lee

S 191 Absence of singular stretching of interacting vortex filaments
S. Hormoz & M. P. Brenner

205 Model-based design of transverse wall oscillations for turbulent drag reduction
R. Moarref & M. R. Jovanović

241 Rigid bounds on heat transport by a fluid between slippery boundaries
J. P. Whitehead & C. R. Doering

260 Interaction of a laminar vortex ring with a thin permeable screen
C. Naaktgeboren, P. S. Krueger & J. L. Lage

287 Corner separation effects for normal shock wave/turbulent boundary layer interactions in rectangular channels
D. M. F. Burton & H. Babinsky

S 307 Contact line dynamics and boundary layer flow during reflection of a solitary wave
Y. S. Park, P. L.-F. Liu & I-C. Chan

331 On the second-order temperature jump coefficient of a dilute gas
G. A. Radtke, N. G. Hadjiconstantinou, S. Takata & K. Aoki

342 Unsteady nearshore natural convection induced by constant isothermal surface heating
Y. Mao, C. Lei & J. C. Patterson

Contents continued on inside back cover.

https://doi.org/10.1017/jfm.2012.407 Published online by Cambridge University Press

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

FSC www.fsc.org MIX Paper from responsible sources FSC® C018575

CAMBRIDGE UNIVERSITY PRESS