

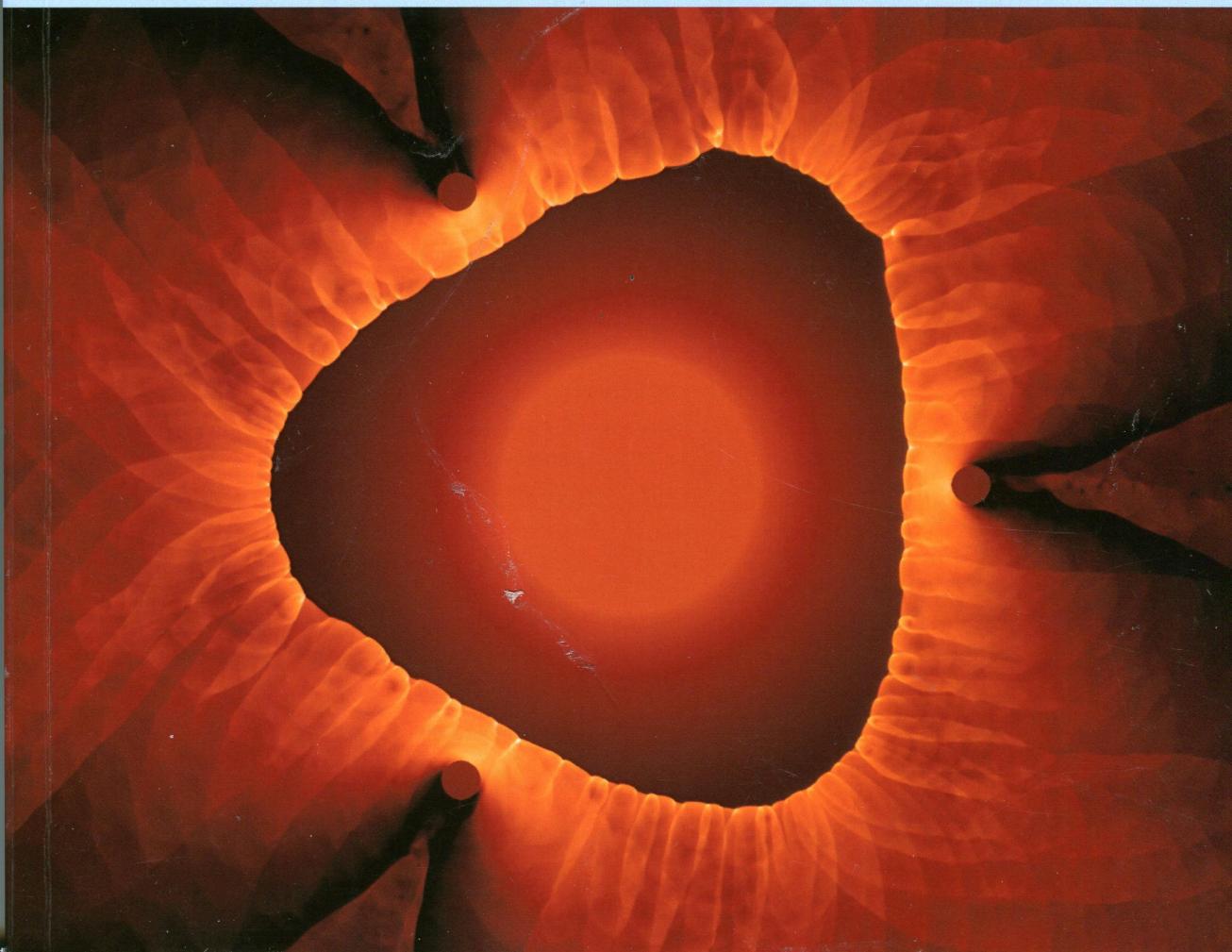
FNU
J80/f

AMBRIDGE
IVERSITY PRESS

10 December 2014

Journal of Fluid Mechanics

VOLUME 760



JOURNAL OF FLUID MECHANICS, VOLUME 760

Soft suspensions: inertia cooperates with flexibility
Chaouqi Misbah

Journal of Fluid Mechanics, Volume 760, December 2014, pp 1-4
doi: 10.1017/jfm.2014.443, Published online by Cambridge University Press 30 Oct 2014

Dynamics of sessile drops. Part 1. Inviscid theory
J. B. Bostwick and P. H. Steen

Journal of Fluid Mechanics, Volume 760, December 2014, pp 5-38
doi: 10.1017/jfm.2014.582, Published online by Cambridge University Press 31 Oct 2014

The effect of viscoelasticity on the turbulent kinetic energy cascade
P. C. Valente and C. B. da Silva and F. T. Pinho

Journal of Fluid Mechanics, Volume 760, December 2014, pp 39-62
doi: 10.1017/jfm.2014.585, Published online by Cambridge University Press 31 Oct 2014

The influence of harmonic wall motion on transitional boundary layers
M. J. Philipp Hack and Tamer A. Zaki

Journal of Fluid Mechanics, Volume 760, December 2014, pp 63-94
doi: 10.1017/jfm.2014.591, Published online by Cambridge University Press 03 Nov 2014

High-Rayleigh-number convection of a reactive solute in a porous medium
T. J. Ward and O. E. Jensen and H. Power and D. S. Riley

Journal of Fluid Mechanics, Volume 760, December 2014, pp 95-126
doi: 10.1017/jfm.2014.594, Published online by Cambridge University Press 04 Nov 2014

Coevolution of width and sinuosity in meandering rivers
Esther C. Eke and M. J. Czapiga and E. Viparelli and Y. Shimizu and J. Imran and T. Sun and G. Parker

Journal of Fluid Mechanics, Volume 760, December 2014, pp 127-174
doi: 10.1017/jfm.2014.556, Published online by Cambridge University Press 04 Nov 2014

Investigation of the roughness-induced transition: global stability analyses and direct numerical simulations
Jean-Christophe Loiseau and Jean-Christophe Robinet and Stefania Cherubini and Emmanuel Leriche

Journal of Fluid Mechanics, Volume 760, December 2014, pp 175-211
doi: 10.1017/jfm.2014.589, Published online by Cambridge University Press 04 Nov 2014

Suction–shear–Coriolis instability in a flow between parallel plates
Kengo Deguchi and Naoyoshi Matsubara and Masato Nagata

Journal of Fluid Mechanics, Volume 760, December 2014, pp 212-242
doi: 10.1017/jfm.2014.600, Published online by Cambridge University Press 04 Nov 2014

Two-phase filtered mass density function for LES of turbulent reacting flows
Z. Li and A. Banaeizadeh and F. A. Jaberi

Journal of Fluid Mechanics, Volume 760, December 2014, pp 243-277
doi: 10.1017/jfm.2014.573, Published online by Cambridge University Press 05 Nov 2014

Linear and nonlinear evolution of a localized disturbance in polymeric channel flow
Akshat Agarwal and Luca Brandt and Tamer A. Zaki

Journal of Fluid Mechanics, Volume 760, December 2014, pp 278-303
doi: 10.1017/jfm.2014.586, Published online by Cambridge University Press 05 Nov 2014

A revisit of the equilibrium assumption for predicting near-wall turbulence
Farid Karimpour and Subhas K. Venayagamoorthy

Journal of Fluid Mechanics, Volume 760, December 2014, pp 304-312
doi: 10.1017/jfm.2014.532, Published online by Cambridge University Press 07 Nov 2014



JOURNAL OF FLUID MECHANICS, VOLUME 760

Detonation in supersonic radial outflow

Aslan R. Kasimov and Svyatoslav V. Korneev

Journal of Fluid Mechanics, Volume 760, December 2014, pp 313-341

doi: 10.1017/jfm.2014.598, Published online by Cambridge University Press 07 Nov 2014

Structural and stability characteristics of jets in crossflow

D. R. Getsinger and L. Gevorkyan and O. I. Smith and A. R. Karagozian

Journal of Fluid Mechanics, Volume 760, December 2014, pp 342-367

doi: 10.1017/jfm.2014.605, Published online by Cambridge University Press 07 Nov 2014

Generalized Ertel's theorem and infinite hierarchies of conserved quantities for three-dimensional time-dependent Euler and Navier–Stokes equations
Alexei F. Cheviakov and Martin Oberlack

Journal of Fluid Mechanics, Volume 760, December 2014, pp 368-386

doi: 10.1017/jfm.2014.611, Published online by Cambridge University Press 07 Nov 2014

Two-dimensional nonlinear travelling waves in magnetohydrodynamic channel flow

Jonathan Hagan and Jānis Priede

Journal of Fluid Mechanics, Volume 760, December 2014, pp 387-406

doi: 10.1017/jfm.2014.612, Published online by Cambridge University Press 11 Nov 2014

A pinned or free-floating rigid plate on a thin viscous film

Philippe H. Trinh and Stephen K. Wilson and Howard A. Stone

Journal of Fluid Mechanics, Volume 760, December 2014, pp 407-430

doi: 10.1017/jfm.2014.526, Published online by Cambridge University Press 11 Nov 2014

Symmetry breaking of azimuthal thermo-acoustic modes in annular cavities: a theoretical study

M. Bauerheim and P. Salas and F. Nicoud and T. Poinsot

Journal of Fluid Mechanics, Volume 760, December 2014, pp 431-465

doi: 10.1017/jfm.2014.578, Published online by Cambridge University Press 11 Nov 2014

Transition through Rayleigh–Taylor instabilities in a breaking internal lee wave

Sergey N. Yakovenko and T. Glyn Thomas and Ian P. Castro

Journal of Fluid Mechanics, Volume 760, December 2014, pp 466-493

doi: 10.1017/jfm.2014.603, Published online by Cambridge University Press 11 Nov 2014

Direct numerical simulations of turbulent Ekman layers with increasing static stability: modifications to the bulk structure and second-order statistics
Stimit K. Shah and Elie Bou-Zeid

Journal of Fluid Mechanics, Volume 760, December 2014, pp 494-539

doi: 10.1017/jfm.2014.597, Published online by Cambridge University Press 11 Nov 2014

Stabilizing action of pressure in homogeneous compressible shear flows: effect of Mach number and perturbation obliqueness

G. Kumar and Rebecca L. Bertsch and Sharath S. Girimaji

Journal of Fluid Mechanics, Volume 760, December 2014, pp 540-566

doi: 10.1017/jfm.2014.604, Published online by Cambridge University Press 12 Nov 2014

Slurry flow, gravitational settling and a proppant transport model for hydraulic fractures

E. V. Dontsov and A. P. Peirce

Journal of Fluid Mechanics, Volume 760, December 2014, pp 567-590

doi: 10.1017/jfm.2014.606, Published online by Cambridge University Press 12 Nov 2014

Local instabilities in magnetized rotational flows: a short-wavelength approach

O. N. Kirillov and F. Stefani and Y. Fukumoto

Journal of Fluid Mechanics, Volume 760, December 2014, pp 591-633

doi: 10.1017/jfm.2014.614, Published online by Cambridge University Press 12 Nov 2014



CAMBRIDGE
UNIVERSITY PRESS

JOURNAL OF FLUID MECHANICS, VOLUME 760

Diffusive and phase change instabilities in a ternary mushy layer
Peter Guba and Daniel M. Anderson

[Journal of Fluid Mechanics, Volume 760, December 2014, pp 634-669](#)
doi: 10.1017/jfm.2014.615, Published online by Cambridge University Press 12 Nov 2014

Roughness effects on the Reynolds stress budgets in near-wall turbulence
Junlin Yuan and Ugo Piomelli

[Journal of Fluid Mechanics, Volume 760, December 2014, R1](#)
doi: 10.1017/jfm.2014.608, Published online by Cambridge University Press 03 Nov 2014

Suspension flow past a cylinder: particle interactions with recirculating wakes
Hamed Haddadi and Shahab Shojaei-Zadeh and Kevin Connington and Jeffrey F. Morris

[Journal of Fluid Mechanics, Volume 760, December 2014, R2](#)
doi: 10.1017/jfm.2014.613, Published online by Cambridge University Press 10 Nov 2014

FLM volume 760 Cover and Front matter

[Journal of Fluid Mechanics, Volume 760, December 2014, pp f1-f4](#)
doi: 10.1017/jfm.2014.650, Published online by Cambridge University Press 21 Nov 2014

FLM volume 760 Cover and Back matter

[Journal of Fluid Mechanics, Volume 760, December 2014, pp b1-b3](#)
doi: 10.1017/jfm.2014.651, Published online by Cambridge University Press 21 Nov 2014

