

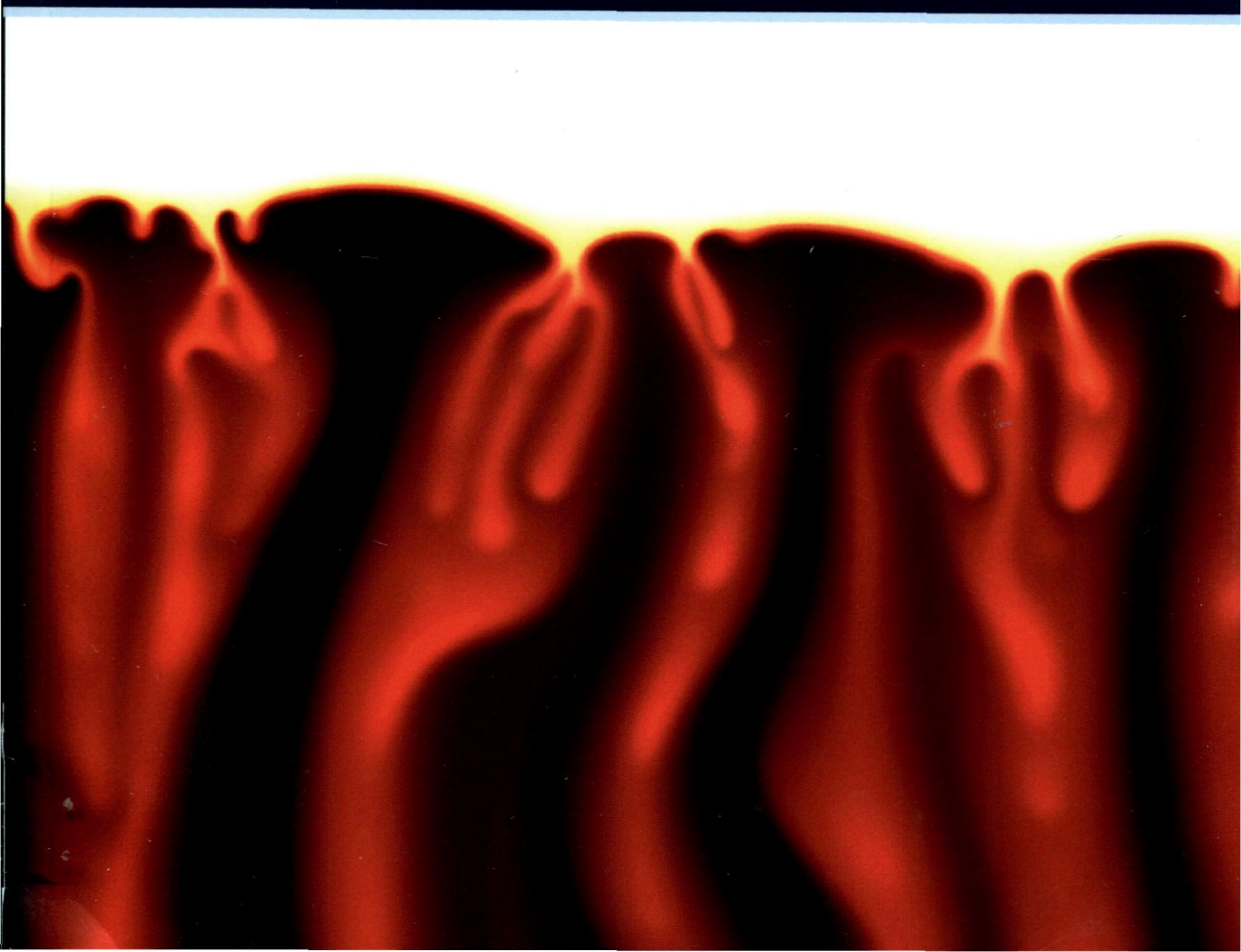
114
J80/f

AMBRIDGE
UNIVERSITY PRESS

25 March 2013

Journal of Fluid Mechanics

VOLUME 719



- 1 Dromions of flexural-gravity waves
M.-R. Alam
- 14 Optimal Taylor–Couette flow: direct numerical simulations
R. Ostilla, R. J. A. M. Stevens, S. Grossmann, R. Verzicco & D. Lohse
- 47 Inertial waves in a differentially rotating spherical shell
C. Baruteau & M. Rieutord
- 82 The evolution of miscible gravity currents in horizontal porous layers
M. L. Szulczewski & R. Juanes
- 97 Vortex-induced vibration of a neutrally buoyant tethered sphere
H. Lee, K. Hourigan & M. C. Thompson
- S 129 Multimodal analysis of weakly nonlinear sloshing in a spherical tank
O. M. Faltinsen & A. N. Timokha
- 165 An alternative view of generalized Lagrangian mean theory
R. Salmon
- 183 Sensitivity analysis of a time-delayed thermo-acoustic system via an adjoint-based approach
L. Magri & M. P. Juniper
- S 203 Stationary plume induced by carbon dioxide dissolution
F. Nadal, P. Meunier, B. Pouligny & E. Laurichesse
- 230 Explicit filtering to obtain grid-spacing-independent and discretization-order-independent large-eddy simulation of two-phase volumetrically dilute flow with evaporation
S. Radhakrishnan & J. Bellan
- S 268 Nonlinear disturbance growth during sedimentation in dilute fibre suspensions
F. Zhang, A. A. Dahlkild & F. Lundell
- 295 Capillary-wave scattering from an infinitesimal barrier and dissipation at dynamic contact lines
L. Zhang & D. B. Thiessen
- 314 Recurrent solutions of the Alber equation initialized by Joint North Sea Wave Project spectra
A. Ribal, A. V. Babanin, I. Young, A. Toffoli & M. Stiassnie
- 345 The shape stability of a lipid vesicle in a uniaxial extensional flow
H. Zhao & E. S. G. Shaqfeh
- 362 A model of bubble-induced turbulence based on large-scale wake interactions
G. Riboux, D. Legendre & F. Risso
- S 388 Falling styles of disks
F. Auguste, J. Magnaudet & D. Fabre
- S 406 Stochastic dynamics and model reduction of amplifier flows: the backward facing step flow
G. Dergham, D. Sipp & J.-Ch. Robinet
- 431 Steady base states for non-Newtonian granular hydrodynamics
F. Vega Reyes, A. Santos & V. Garzó
- 465 Orientation of non-spherical particles in an axisymmetric random flow
D. Vincenzi
- 488 Modelling circulation, impulse and kinetic energy of starting jets with non-zero radial velocity
M. Krieg & K. Mohseni
- S 527 Interplay among unstable modes in films over permeable walls
C. Camporeale, E. Mantelli & C. Manes
- 551 Convective shutdown in a porous medium at high Rayleigh number
D. R. Hewitt, J. A. Neufeld & J. R. Lister
- 587 Highly focused supersonic microjets: numerical simulations
I. R. Peters, Y. Tagawa, N. Oudalov, C. Sun, A. Prosperetti, D. Lohse & D. van der Meer
- S 606 Nonlinear energy transfer between fluid sloshing and vessel motion
M. R. Turner & T. J. Bridges

Contents continued on inside back cover.

JFM Rapids (online only)

- R1 Generalized logarithmic law for high-order moments in turbulent boundary layers
C. Meneveau & I. Marusic
- R2 Exact solutions for cylindrical ‘slip–stick’ Janus swimmers in Stokes flow
D. G. Crowdy
- R3 The electrophoretic mobility of rod-like particles
E. Yariv & O. Schnitzer
- R4 Strong particle dispersion by weakly dissipative random internal waves
O. Bühler, N. Grisouard & M. Holmes-Cerfon

S indicates supplementary data or movies available online.