

VOLUME 571

25 January 2007

Journal of Fluid Mechanics

CAMBRIDGE
UNIVERSITY PRESS.

A. V. Orpe & D. V. Khakhar	Rheology of surface granular flows	1
R. D. Lenz & S. Kumar	Competitive displacement of thin liquid films on chemically patterned substrates	33
D. Pritchard & C. N. Richardson	The effect of temperature-dependent solubility on the onset of thermosolutal convection in a horizontal porous layer	59
H. C. Lim, I. P. Castro & R. P. Hoxey	Bluff bodies in deep turbulent boundary layers: Reynolds-number issues	97
Y. Duan, W. Koch, C. M. Linton & M. McIver	Complex resonances and trapped modes in ducted domains	119
A. Shapiro & E. Fedorovich	Katabatic flow along a differentially cooled sloping surface	149
D. Mountazin & J. Cohen	The effect of buoyancy on vortex breakdown in a swirling jet	177
J. C. Alexander, A. J. Bernoff, E. K. Mann, J. A. Mann Jr, J. R. Wintersmith & L. Zou	Domain relaxation in Langmuir films	191
F. Gallaire, M. Marquillie & U. Ehrenstein	Three-dimensional transverse instabilities in detached boundary layers	221
T. Ikeda & P. A. Durbin	Direct simulations of a rough-wall channel flow	235
P. Scandura	Steady streaming in a turbulent oscillating boundary layer	265
M. O. Iqbal & F. O. Thomas	Coherent structure in a turbulent jet via a vector implementation of the proper orthogonal decomposition	281
K. Parker, K. D. von Ellenrieder & J. Soria	Morphology of the forced oscillatory flow past a finite-span wing at low Reynolds number	327
J. J. Wylie & H. Huang	Extensional flows with viscous heating	359
E. de Langre, M. P. Païdoussis, O. Doaré & Y. Modarres-Sadeghi	Flutter of long flexible cylinders in axial flow	371
P. Franzese & M. Cassiani	A statistical theory of turbulent relative dispersion	391
R. Gayen, B. N. Mandal & A. Chakrabarti	Water wave diffraction by a surface strip	419
E. A. van Nierop, S. Luther, J. J. Bluemink, J. Magnaudet, A. Prosperetti & D. Lohse	Drag and lift forces on bubbles in a rotating flow	439
C. Gollwitzer, G. Matthies, R. Richter, I. Rehberg & L. Tobiska	The surface topography of a magnetic fluid: a quantitative comparison between experiment and numerical simulation	455
Y. Nagatsu, K. Matsuda, Y. Kato & Y. Tada	Experimental study on miscible viscous fingering involving viscosity changes induced by variations in chemical species concentrations due to chemical reactions	475
A. K. Hinds, E. R. Johnson & N. R. McDonald	Vortex scattering by step topography	495
BOOK REVIEW		
	<i>Pattern Formation: An Introduction to Methods, by R. Hoyle</i>	506
INDEX TO VOLUME 571		508

The Journal of Fluid Mechanics now accepts submissions via Manuscript Central
 Go to <http://www.jfm.damtp.cam.ac.uk/> as an author