358 On the connection between the magneto-elliptic and magneto-rotational instabilities
K. A. Mizerski & W. Lyra

374 A new model of roll waves: comparison with Brock's experiments
G. L. Richard & S. L. Gavrilyuk

406 An analytically predictive model for moderately rarefied gas flow
T. Veltzke & J. Thöming

423 Slender-body theory for the generation of micrometre-sized emulsions through tip streaming
E. Castro-Hernández, F. Campo-Cortés & J. M. Gordillo

446 Boundary-element method for the prediction of performance of flapping foils with leading-edge separation
Y. Pan, X. Dong, Q. Zhu & D. K. P. Yue

468 Relevance of local parallel theory to the linear stability of laminar separation bubbles
S. S. Diwan & O. N. Ramesh

S indicates supplementary data or movies available online.

https://doi.org/10.1017/jfm.2012.168 Published online by Cambridge University Press

698 ISSN 0022-1120
Journal of Fluid Mechanics 10 May 2012

1 Survival hydrodynamics
M. S. Triantafyllou

S 5 C-start: optimal start of larval fish
M. Gazzola, W. M. Van Rees & P. Koumoutsakos

19 Energy spectra of stably stratified turbulence
Y. Kimura & J. R. Herring

51 Magnetohydrodynamic drift equations: from Langmuir circulations to magnetohydrodynamic dynamo?
V. A. Vladimirov

62 Marine ice sheet stability
C. Schoof

73 Generalized two-dimensional Lagally theorem with free vortices and its application to fluid–body interaction problems
C. T. Wu, F.-L. Yang & D. L. Young

93 Wavelet analysis of near-field pressure fluctuations generated by a subsonic jet
S. Grizzi & R. Camussi

125 The influence of surfactant on the propagation of a semi-infinite bubble through a liquid-filled compliant channel
D. Halpern & D. P. Gaver III

160 Where do small, weakly inertial particles go in a turbulent flow?
M. Gibert, H. Xu & E. Bodenschatz

168 On the transition from finite-volume negatively buoyant releases to continuous fountains
O. J. Myrtroeen & G. R. Hunt

185 Asymptotic analysis of a Hiemenz flow in a low-porosity medium with phase change
M. A. E. Kokubun & F. F. Fachini

211 On the generation of steady streamwise streaks in flat-plate boundary layers
J. H. M. Fransson & A. Talamelli

235 Direct numerical simulation of a $30R$ long turbulent pipe flow at $R^+ = 685$: large- and very large-scale motions
X. Wu, J. R. Baltzer & R. J. Adrian

282 First- and second-order forcing expansions in a lattice Boltzmann method reproducing isothermal hydrodynamics in artificial compressibility form
G. Silva & V. Semiao

304 Third-order theory for multi-directional irregular waves
P. A. Madsen & D. R. Fuhrman

335 Effective transition of steady flow over a square leading-edge plate
M. C. Thompson

Contents continued on inside back cover.

https://doi.org/10.1017/jfm.2012.168 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® C018127

CAMBRIDGE UNIVERSITY PRESS