JOURNALS

European Journal of Applied Mathematics

Co-Editors-in-Chief

S. D. Howison, University of Oxford, UK A. A. Lacey, DPMMS, Heriot-Watt University, UK M. J. Ward, University of British Columbia, Canada

Since 2008 *EJAM* surveys have been expanded to cover Applied and Industrial Mathematics. Coverage of the journal has been strengthened in probabilistic applications, while still focusing on those areas of applied mathematics inspired by real-world applications, and at the same time fostering the development of theoretical methods with a broad range of applicability. Survey papers contain reviews of emerging areas of mathematics, either in core areas or with relevance to users in industry and other disciplines. Research papers may be in any area of applied mathematics, with special emphasis on new mathematical ideas, relevant to modelling and analysis in modern science and technology, and the development of interesting mathematical methods of wide applicability.

Price information is available at: http://journals.cambridge.org/ejm

Free email alerts Keep up-to-date with new material – sign up at http://journals.cambridge.org/ejm-alerts

For free online content visit: http://journals.cambridge.org/ejm



European Journal of Applied Mathematics is available online at: http://journals.cambridge.org/ejm

To subscribe contact Customer Services

in Cambridge: Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York: Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions_newyork@cambridge.org



- Anomalous dispersion in chemically heterogeneous media induced by long-range disorder correlation
 D. Bolster & M. Dentz
- 390 Three-dimensional instability of the flow over a forward-facing step **D. Lanzerstorfer & H. C. Kuhlmann**
- High-enthalpy flow over a rearward-facing step a computational study
 N. R. Deepak, S. L. Gai & A. J. Neely
- 439 Stability of reactive interfaces in saturated porous media under gravity in the presence of transverse flows
 S. H. Hejazi & J. Azaiez
- 467 On sloshing modes in a circular tank O. M. Faltinsen & A. N. Timokha

S indicates supplementary data or movies available online.

ISSN 0022-1120

695

Journal of Fluid Mechanics

- 1 Large eddy simulation of a pulsed jet in cross-flow A. Coussement, O. Gicquel & G. Degrez
- 35 Cyclic steps and roll waves in shallow water flow over an erodible bed **N. J. Balmforth & A. Vakil**
- 63 Three-dimensional river bed forms M. Colombini & A. Stocchino
- 81 Escaping mass approach for inclined plane and round buoyant jets P. C. Yannopoulos & A. A. Bloutsos
- Global vorticity shedding for a vanishing wing
 M. S. Wibawa, S. C. Steele, J. M. Dahl, D. E. Rival, G. D. Weymouth &
 M. S. Triantafyllou
- 135 Transition to chaos in the wake of a rolling sphereA. Rao, P.-Y. Passaggia, H. Bolnot, M. C. Thompson, T. Leweke & K. Hourigan
- 149 A fully adaptive wavelet-based approach to homogeneous turbulence simulation **G. De Stefano & O. V. Vasilyev**
- Horizontal and vertical motions of barotropic vortices over a submarine mountain
 L. Zavala Sansón, A. C. Barbosa Aguiar & G. J. F. van Heijst
- Effect of non-parallel mean flow on the Green's function for predicting the low-frequency sound from turbulent air jets
 M. E. Goldstein, A. Sescu & M. Z. Afsar
- 235 Instability and hydraulics of turbulent stratified shear flows Z. Liu, S. A. Thorpe & W. D. Smyth
- 257 Turbulence dynamics near a turbulent/non-turbulent interfaceM. A. C. Teixeira & C. B. da Silva
- 288 Water waves over a variable bottom: a non-local formulation and conformal mappings A. S. Fokas & A. Nachbin
- 310 Air trapping at impact of a rigid sphere onto a liquid P. D. Hicks, E. V. Ermanyuk, N. V. Gavrilov & R. Purvis
- S 321 Monolith formation and ring-stain suppression in low-pressure evaporation of poly(ethylene oxide) droplets
 K. A. Baldwin, S. Roest, D. J. Fairhurst, K. Sefiane & M. E. R. Shanahan
 - 330 An inertia 'paradox' for incompressible stratified Euler fluids R. Camassa, S. Chen, G. Falqui, G. Ortenzi & M. Pedroni
 - 241 A multi-layer model for nonlinear internal wave propagation in shallow water P. L.-F. Liu & X. Wang

Contents continued on inside back cover.

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



MIX Paper from responsible sources FSC[®] C018127

