

INDEX

- Agnon, Y.** *See* Toledo & Agnon
- Ahlers, G., Bodenschatz, E., Funfschilling, D. & Hogg, J.** Turbulent Rayleigh–Bénard convection for a Prandtl number of 0.67, 157–167
- Alben, S.** Wake-mediated synchronization and drafting in coupled flags, 489–496
- Aumaitre, S.** *See* Berhanu, Gallet, Monchaux, Bourgoin, Odier, Pinton, Plihon, Volk, Fauve, Mordant, Pétrélis, Aumaitre, Chiffaudel, Daviaud, Dubrulle & Ravelet
- Bagheri, S.** *See* Rowley, Mezić, Bagheri, Schlatter & Henningson
- Barbagallo, A., Sipp, D. & Schmid, P. J.** Closed-loop control of an open cavity flow using reduced-order models, 1–50
- Berhanu, M., Gallet, B., Monchaux, R., Bourgoin, M., Odier, Ph., Pinton, J.-F., Plihon, N., Volk, R., Fauve, S., Mordant, N., Pétrélis, F., Aumaitre, S., Chiffaudel, A., Daviaud, F., Dubrulle, B. & Ravelet, F.** Bistability between a stationary and an oscillatory dynamo in a turbulent flow of liquid sodium, 217–226
- Berzi, D. & Jenkins, J. T.** Steady inclined flows of granular-fluid mixtures, 359–387
- Bodenschatz, E.** *See* Ahlers, Bodenschatz, Funfschilling & Hogg
- Bond, C., Hill, D. J., Meiron, D. I. & Dimotakis, P. E.** Shock focusing in a planar convergent geometry: experiment and simulation, 297–333
- Bourgoin, M.** *See* Berhanu, Gallet, Monchaux, Bourgoin, Odier, Pinton, Plihon, Volk, Fauve, Mordant, Pétrélis, Aumaitre, Chiffaudel, Daviaud, Dubrulle & Ravelet
- Bredmose, H., Peregrine, D. H. & Bullock, G. N.** Violent breaking wave impacts. Part 2: modelling the effect of air, 389–430
- Brevdo, L.** Three-dimensional absolute and convective instabilities at the onset of convection in a porous medium with inclined temperature gradient and vertical throughflow, 475–487
- Brzek, B.** *See* Cal, Brzek, Johansson & Castillo
- Bullock, G. N.** *See* Bredmose, Peregrine & Bullock
- Cal, R. B., Brzek, B., Johansson, T. G. & Castillo, L.** The rough favourable pressure gradient turbulent boundary layer, 129–155
- Castillo, L.** *See* Cal, Brzek, Johansson & Castillo
- Chen, S.** *See* Rapaka, Pawar, Stauffer, Zhang & Chen
- Chiffaudel, A.** *See* Berhanu, Gallet, Monchaux, Bourgoin, Odier, Pinton, Plihon, Volk, Fauve, Mordant, Pétrélis, Aumaitre, Chiffaudel, Daviaud, Dubrulle & Ravelet
- Crowdy, D.** The spreading phase in Lighthill’s model of the Weis-Fogh lift mechanism, 195–204
- Cuevas, S.** *See* Figueroa, Demiaux, Cuevas & Ramos
- Daviaud, F.** *See* Berhanu, Gallet, Monchaux, Bourgoin, Odier, Pinton, Plihon, Volk, Fauve, Mordant, Pétrélis, Aumaitre, Chiffaudel, Daviaud, Dubrulle & Ravelet
- Davies, C. J., Gubbins, D. & Jimack, P. K.** Convection in a rapidly rotating spherical shell with an imposed laterally varying thermal boundary condition, 335–358
- Demiaux, F.** *See* Figueroa, Demiaux, Cuevas & Ramos
- Dimitrakopoulos, P.** *See* Dodson III & Dimitrakopoulos
- Dimotakis, P. E.** *See* Bond, Hill, Meiron & Dimotakis
- Dodson III, W. R. & Dimitrakopoulos, P.** Dynamics of strain-hardening and strain-softening capsules in strong planar extensional flows via an interfacial spectral boundary element algorithm for elastic membranes, 263–296

- Drikakis, D.** *See* Quaranta & Drikakis
- Dubrulle, B.** *See* Berhanu, Gallet, Monchaux, Bourgoin, Odier, Pinton, Plihon, Volk, Fauve, Mordant, Pétrélis, Aumaître, Chiffaudel, Daviaud, Dubrulle & Ravelet
- Dutcher, C. S. & Muller, S. J.** Spatio-temporal mode dynamics and higher order transitions in high aspect ratio Newtonian Taylor–Couette flows, 85–113
- Escauriaza, C. & Sotiropoulos, F.** Trapping and sedimentation of inertial particles in three-dimensional flows in a cylindrical container with exactly counter-rotating lids, 169–193
- Fauve, S.** *See* Berhanu, Gallet, Monchaux, Bourgoin, Odier, Pinton, Plihon, Volk, Fauve, Mordant, Pétrélis, Aumaître, Chiffaudel, Daviaud, Dubrulle & Ravelet
- Figueroa, A., Demiaux, F., Cuevas, S. & Ramos, E.** Electrically driven vortices in a weak dipolar magnetic field in a shallow electrolytic layer, 245–261
- Funfschilling, D.** *See* Ahlers, Bodenschatz, Funfschilling & Hogg
- Gallet, B.** *See* Berhanu, Gallet, Monchaux, Bourgoin, Odier, Pinton, Plihon, Volk, Fauve, Mordant, Pétrélis, Aumaître, Chiffaudel, Daviaud, Dubrulle & Ravelet
- Ghisalberti, M.** Obstructed shear flows: similarities across systems and scales, 51–61
- Gubbins, D.** *See* Davies, Gubbins & Jimack
- Hayakawa, H.** *See* Tatsumi, Murayama, Hayakawa & Sano
- Henningson, D. S.** *See* Rowley, Mezić, Bagheri, Schlatter & Henningson
- Hill, D. J.** *See* Bond, Hill, Meiron & Dimotakis
- Hogg, J.** *See* Ahlers, Bodenschatz, Funfschilling & Hogg
- Holzner, M.** *See* Lüthi, Holzner & Tsinober
- Jenkins, J. T.** *See* Berzi & Jenkins
- Jimack, P. K.** *See* Davies, Gubbins & Jimack
- Johansson, T. G.** *See* Cal, Brzek, Johansson & Castillo
- Kanso, E. & Newton, P. K.** Passive locomotion via normal-mode coupling in a submerged spring–mass system, 205–215
- Kominiarczuk, J.** *See* Yan, Liu, Kominiarczuk & Yue
- Liu, Y.** *See* Yan, Liu, Kominiarczuk & Yue
- Lüthi, B., Holzner, M. & Tsinober, A.** Expanding the Q – R space to three dimensions, 497–507
- Meiron, D. I.** *See* Bond, Hill, Meiron & Dimotakis
- Mezić, I.** *See* Rowley, Mezić, Bagheri, Schlatter & Henningson
- Monchaux, R.** *See* Berhanu, Gallet, Monchaux, Bourgoin, Odier, Pinton, Plihon, Volk, Fauve, Mordant, Pétrélis, Aumaître, Chiffaudel, Daviaud, Dubrulle & Ravelet
- Mordant, N.** *See* Berhanu, Gallet, Monchaux, Bourgoin, Odier, Pinton, Plihon, Volk, Fauve, Mordant, Pétrélis, Aumaître, Chiffaudel, Daviaud, Dubrulle & Ravelet
- Muller, S. J.** *See* Dutcher & Muller
- Murayama, Y.** *See* Tatsumi, Murayama, Hayakawa & Sano
- Newton, P. K.** *See* Kanso & Newton
- Odier, Ph.** *See* Berhanu, Gallet, Monchaux, Bourgoin, Odier, Pinton, Plihon, Volk, Fauve, Mordant, Pétrélis, Aumaître, Chiffaudel, Daviaud, Dubrulle & Ravelet
- Pawar, R. J.** *See* Rapaka, Pawar, Stauffer, Zhang & Chen
- Peregrine, D. H.** *See* Bredmose, Peregrine & Bullock
- Pétrélis, F.** *See* Berhanu, Gallet, Monchaux, Bourgoin, Odier, Pinton, Plihon, Volk, Fauve, Mordant, Pétrélis, Aumaître, Chiffaudel, Daviaud, Dubrulle & Ravelet

- Pinton, J.-F.** *See* Berhanu, Gallet, Monchaux, Bourgoin, Odier, Pinton, Plihon, Volk, Fauve, Mordant, Pétrélis, Aumaître, Chiffaudel, Daviaud, Dubrulle & Ravelet
- Plihon, N.** *See* Berhanu, Gallet, Monchaux, Bourgoin, Odier, Pinton, Plihon, Volk, Fauve, Mordant, Pétrélis, Aumaître, Chiffaudel, Daviaud, Dubrulle & Ravelet
- Quaranta, E. & Drikakis, D.** Noise radiation from a ducted rotor in a swirling-translating flow, 463–473
- Ramos, E.** *See* Figueroa, Demiaux, Cuevas & Ramos
- Rapaka, S., Pawar, R. J., Stauffer, P. H., Zhang, D. & Chen, S.** Onset of convection over a transient base-state in anisotropic and layered porous media, 227–244
- Ravelet, F.** *See* Berhanu, Gallet, Monchaux, Bourgoin, Odier, Pinton, Plihon, Volk, Fauve, Mordant, Pétrélis, Aumaître, Chiffaudel, Daviaud, Dubrulle & Ravelet
- Rowley, C. W., Mezić, I., Bagheri, S., Schlatter, P. & Henningson, D. S.** Spectral analysis of nonlinear flows, 115–127
- Sánchez-Sanz, M. & Velazquez, A.** Vortex-induced vibration of a prism in internal flow, 431–440
- Sano, M.** *See* Tatsumi, Murayama, Hayakawa & Sano
- Schlatter, P.** *See* Rowley, Mezić, Bagheri, Schlatter & Henningson
- Schmid, P. J.** *See* Barbagallo, Sipp & Schmid
- Sipp, D.** *See* Barbagallo, Sipp & Schmid
- Soares, E. J. & Thompson, R. L.** Flow regimes for the immiscible liquid–liquid displacement in capillary tubes with complete wetting of the displaced liquid, 63–84
- Sotiropoulos, F.** *See* Escauriaza & Sotiropoulos
- Stauffer, P. H.** *See* Rapaka, Pawar, Stauffer, Zhang & Chen
- Tatsumi, S., Murayama, Y., Hayakawa, H. & Sano, M.** Experimental study on the kinetics of granular gases under microgravity, 521–539
- Thompson, R. L.** *See* Soares & Thompson
- Toledo, Y. & Agnon, Y.** Nonlinear refraction-diffraction of water waves: the complementary mild-slope equations, 509–520
- Tsinober, A.** *See* Lüthi, Holzner & Tsinober
- Velazquez, A.** *See* Sánchez-Sanz & Velazquez
- Volk, R.** *See* Berhanu, Gallet, Monchaux, Bourgoin, Odier, Pinton, Plihon, Volk, Fauve, Mordant, Pétrélis, Aumaître, Chiffaudel, Daviaud, Dubrulle & Ravelet
- Yan, H., Liu, Y., Kominiarczuk, J. & Yue, D. K. P.** Cavity dynamics in water entry at low Froude numbers, 441–461
- Yue, D. K. P.** *See* Yan, Liu, Kominiarczuk & Yue
- Zhang, D.** *See* Rapaka, Pawar, Stauffer, Zhang & Chen

- 1 Closed-loop control of an open cavity flow using reduced-order models
A. Barbagallo, D. Sipp & P. J. Schmid
- 51 Obstructed shear flows: similarities across systems and scales
M. Ghisalberti
- 63 Flow regimes for the immiscible liquid–liquid displacement in capillary tubes with complete wetting of the displaced liquid
E. J. Soares & R. L. Thompson
- 85 Spatio-temporal mode dynamics and higher order transitions in high aspect ratio Newtonian Taylor–Couette flows
C. S. Dutcher & S. J. Muller
- 115 Spectral analysis of nonlinear flows
C. W. Rowley, I. Mezić, S. Bagheri, P. Schlatter & D. S. Henningson
- 129 The rough favourable pressure gradient turbulent boundary layer
R. B. Cal, B. Brzek, T. G. Johansson & L. Castillo
- 157 Turbulent Rayleigh–Bénard convection for a Prandtl number of 0.67
G. Ahlers, E. Bodenschatz, D. Funfschilling & J. Hogg
- 169 Trapping and sedimentation of inertial particles in three-dimensional flows in a cylindrical container with exactly counter-rotating lids
C. Escauriaza & F. Sotiropoulos
- 195 The spreading phase in Lighthill’s model of the Weis-Fogh lift mechanism
D. Crowdy
- 205 Passive locomotion via normal-mode coupling in a submerged spring–mass system
E. Kanso & P. K. Newton
- 217 Bistability between a stationary and an oscillatory dynamo in a turbulent flow of liquid sodium
M. Berhanu, B. Gallet, R. Monchaux, M. Bourgoïn, Ph. Odier, J.-F. Pinton, N. Plihon, R. Volk, S. Fauve, N. Mordant, F. Pétrélis, S. Aumaître, A. Chiffaudel, F. Daviaud, B. Dubrulle & F. Ravelet
- 227 Onset of convection over a transient base-state in anisotropic and layered porous media
S. Rapaka, R. J. Pawar, P. H. Stauffer, D. Zhang & S. Chen
- 245 Electrically driven vortices in a weak dipolar magnetic field in a shallow electrolytic layer
A. Figueroa, F. Demiaux, S. Cuevas & E. Ramos
- 263 Dynamics of strain-hardening and strain-softening capsules in strong planar extensional flows via an interfacial spectral boundary element algorithm for elastic membranes
W. R. Dodson III & P. Dimitrakopoulos
- 297 Shock focusing in a planar convergent geometry: experiment and simulation
C. Bond, D. J. Hill, D. I. Meiron & P. E. Dimotakis
- 335 Convection in a rapidly rotating spherical shell with an imposed laterally varying thermal boundary condition
C. J. Davies, D. Gubbins & P. K. Jimack
- 359 Steady inclined flows of granular–fluid mixtures
D. Berzi & J. T. Jenkins
- 389 Violent breaking wave impacts. Part 2: modelling the effect of air
H. Bredmose, D. H. Peregrine & G. N. Bullock
- 431 Vortex-induced vibration of a prism in internal flow
M. Sánchez-Sanz & A. Velazquez
- 441 Cavity dynamics in water entry at low Froude numbers
H. Yan, Y. Liu, J. Kominiarczuk & D. K. P. Yue
- 463 Noise radiation from a ducted rotor in a swirling–translating flow
E. Quaranta & D. Drikakis
- 475 Three-dimensional absolute and convective instabilities at the onset of convection in a porous medium with inclined temperature gradient and vertical throughflow
L. Brevedo
- 489 Wake-mediated synchronization and drafting in coupled flags
S. Alben
- 497 Expanding the Q – R space to three dimensions
B. Lüthi, M. Holzner & A. Tsinober
- 509 Nonlinear refraction–diffraction of water waves: the complementary mild-slope equations
Y. Toledo & Y. Agnon
- 521 Experimental study on the kinetics of granular gases under microgravity
S. Tatsumi, Y. Murayama, H. Hayakawa & M. Sano
- 540 INDEX TO VOLUME 641



Mixed Sources
Product group from well-managed
forests and other controlled sources

Cert no. SA-COC-1527
www.fsc.org
© 1996 Forest Stewardship Council

Cambridge Journals Online

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

CAMBRIDGE
UNIVERSITY PRESS