A numerical study of granular shear flows of rod-like particles using the discrete element method
Y. Guo, C. Wassgren, W. Ketterhagen, B. Hancock, B. James & J. Curtis

Effect of microstructural anisotropy on the fluid–particle drag force and the stability of the uniformly fluidized state
W. Holloway, J. Sun & S. Sundaresan

Spreading dynamics of drop impacts
G. Lagubeau, M. A. Fontelos, C. Josserand, A. Maurel, V. Pagneux & P. Petitjeans

Formation process of the vortex ring generated by an impulsively started circular disc
A.-l. Yang, L.-h. Jia & X.-z. Yin

Spectral analysis of the transition to turbulence from a dipole in stratified fluid
P. Angier, J.-M. Chomaz & P. Billant

Jettable fluid space and jetting characteristics of a microprint head

The structure of the absolutely unstable regions in the near field of low-density jets
W. Coenen & A. Sevilla

Generating controllable velocity fluctuations using twin oscillating hydrofoils
S. E. Harding & I. G. Bryden

Stokes flow singularity at the junction between impermeable and porous walls
L. C. Nitsche & P. Parthasarathi

Linear biglobal analysis of Rayleigh–Bénard instabilities in binary fluids with and without throughflow
J. Hu, D. Henry, X.-Y. Yin & H. BenHadid

Turbulent duct flows in a liquid metal magnetohydrodynamic power generator
H. Kobayashi, H. Shionoya & Y. Okuno

Motion of a solid particle in a shear flow along a porous slab
S. Khabthani, A. Sellier, L. Elasmi & F. Feuillebois

Computations of fully nonlinear hydroelastic solitary waves on deep water
P. Guyenne & E. J. Férat

On the effects of finite-rate carbon/oxygen chemistry on supersonic jet instability
L. Massa & P. Ravindran

Exact solutions for wave propagation over a patch of large bottom corrugations
J. Yu & G. Zheng

Contents continued on inside back cover.