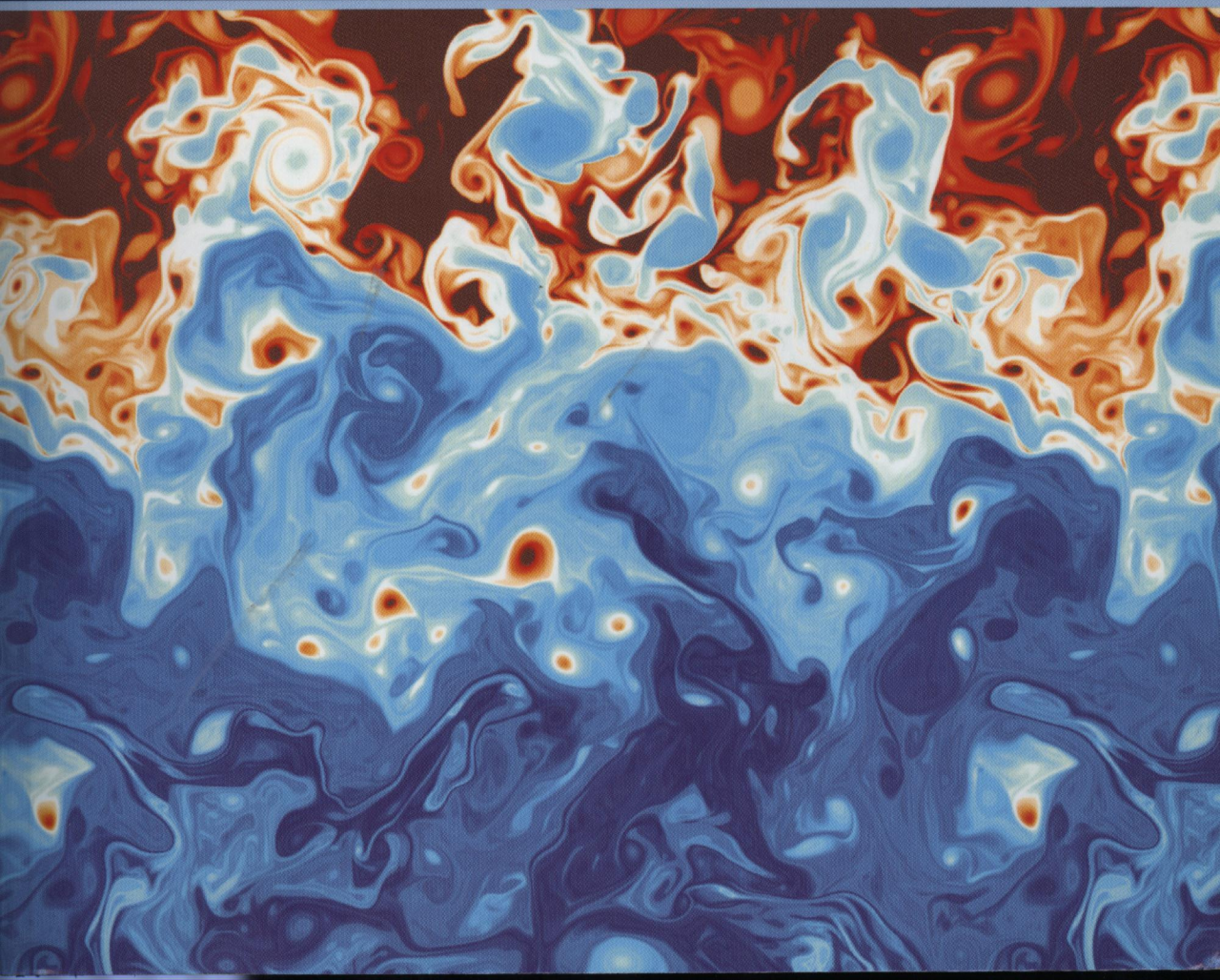


CAMBRIDGE
UNIVERSITY PRESS

10 Apr. 2009

Journal of Fluid Mechanics

VOLUME 624



- 1 The dam-break problem for viscous fluids in the high-capillary-number limit
C. Ancey, S. Cochard & N. Andreini
- 23 The role of superhydrophobicity in the adhesion of a floating cylinder
D.-G. Lee & H.-Y. Kim
- 33 Global stability of a jet in crossflow
S. Bagheri, P. Schlatter, P. J. Schmid & D. S. Henningson
- 45 Available potential energy diagnosis in a direct numerical simulation of rotating stratified turbulence
G. Rouillet & P. Klein
- 57 Effect of relative humidity on heat transfer across the surface of an evaporating water droplet in air flow
R. Kurose, A. Fujita & S. Komori
- 69 Particle clustering in periodically forced straining flows
J. S. Marshall
- 101 Marangoni convection in droplets on superhydrophobic surfaces
D. Tam, V. von Arnim, G. H. McKinley & A. E. Hosoi
- 125 Multidimensional stability analysis of gaseous detonations near Chapman–Jouguet conditions for small heat release
P. Clavin & F. A. Williams
- 151 Peripheral mixing of passive scalar at small Reynolds number
G. Boffetta, F. de Lillo & A. Mazzino
- 159 Drag and lift forces on interface-contaminated bubbles spinning in a rotating flow
M. Rastello, J.-L. Marié, N. Grosjean & M. Lance
- 179 On satisfying the radiation condition in free-surface flows
B. J. Binder, J.-M. Vanden-Broeck & F. Dias
- 191 Bragg resonance of waves in a two-layer fluid propagating over bottom ripples. Part I. Perturbation analysis
M.-R. Alam, Y. Liu & D. K. P. Yue
- 225 Bragg resonance of waves in a two-layer fluid propagating over bottom ripples. Part II. Numerical simulation
M.-R. Alam, Y. Liu & D. K. P. Yue
- 255 Growth, oscillation and collapse of vortex cavitation bubbles
J. Choi, C.-T. Hsiao, G. Chahine & S. Ceccio
- 281 A free-surface and blockage correction for tidal turbines
J. I. Whelan, J. M. R. Graham & J. Peiró
- 293 Small-deformation theory for a surfactant-covered drop in linear flows
P. M. Vlahovska, J. Bławdziewicz & M. Loewenberg
- 339 Spectral data for travelling water waves: singularities and stability
D. P. Nicholls
- 361 The effect of Brownian motion on the stability of sedimenting suspensions of polarizable rods in an electric field
B. D. Hoffman & E. S. G. Shaqfeh
- 389 On separated shear layers and the fractal geometry of turbulent scalar interfaces at large Reynolds numbers
F. R. Zubair & H. J. Catrakis
- 412 INDEX TO VOLUME 624