



Cambridge Core

The new home of
Cambridge Journals
[cambridge.org/core](https://www.cambridge.org/core)

Cambridge **Core**



CAMBRIDGE
UNIVERSITY PRESS

Mathematics

Books and Journals from
Cambridge University Press

Cambridge is a world leading publisher in pure and applied mathematics, with an extensive programme of high quality books and journals that reaches into every corner of the subject.

Our catalogue reflects not only the breadth of mathematics but also its depth, with titles for undergraduate students, for graduate students, for researchers and for users of mathematics.

We are proud to include world class researchers and influential educators amongst our authors, and also to publish in partnership with leading mathematical societies.

For further details visit:
[cambridge.org/core-mathematics](https://www.cambridge.org/core-mathematics)

Cambridge
Core



CAMBRIDGE
UNIVERSITY PRESS

cotg u

- 653 On the limiting Stokes wave of extreme height in arbitrary water depth
X. Zhong & S. Liao
- S* 680 The impact of a deep-water plunging breaker on a wall with its bottom edge close to the mean water surface
A. Wang, C. M. Ikeda-Gilbert, J. H. Duncan, D. P. Lathrop, M. J. Cooker & A. M. Fullerton
- 722 Experimental investigation of the scaling of vortex wandering in turbulent surroundings
S. C. C. Bailey, S. Pentelow, H. C. Ghimire, B. Estejab, M. A. Green & S. Tavoularis
- 748 Stochastic marine ice sheet variability
T. E. Mulder, S. Baars, F. W. Wubs & H. A. Dijkstra
- S* 778 Buoyancy-driven destabilization of an immersed granular bed
E. Herbert, C. Morize, A. Louis-Napoléon, C. Goupil, P. Jop & Y. D'Angelo
- 810 The granular monoclinic wave
D. Razis, G. Kanellopoulos & K. van der Weele
- 847 Nonlinear electrophoresis of a tightly fitting sphere in a cylindrical tube
J. D. Sherwood & S. Ghosal
- 872 Tracer particle dispersion around elementary flow patterns
M. V. Goudar & G. E. Elsinga
- 898 CORRIGENDUM

JFM Rapids (online only)

- R1 Settling-driven instability in two-component stably stratified Hele-Shaw flows
R. M. Oliveira & E. Meiburg
- R2 Fractal characteristics of turbulent–non-turbulent interface in supersonic turbulent boundary layers
Y. Zhuang, H. Tan, H. Huang, Y. Liu & Y. Zhang

S indicates supplementary data or movies available online.

- 1 Viscous drops on a layer of the same fluid: from sinking, wedging and spreading to their long-time evolution
N. Bergemann, A. Juel & M. Heil
- S 29 Sound generation by turbulent premixed flames
A. Haghiri, M. Talei, M. J. Brear & E. R. Hawkes
- 53 Bifurcation of nonlinear Tollmien–Schlichting waves in a high-speed channel flow
K. Deguchi & A. Walton
- 98 Effect of free surface on submerged stratified shear instabilities
M. H. Shete & A. Guha
- 126 Direct numerical simulation of high aspect ratio spanwise-aligned bars
M. MacDonald, A. Ooi, R. García-Mayoral, N. Hutchins & D. Chung
- 156 The scaling of the turbulent/non-turbulent interface at high Reynolds numbers
T. S. Silva, M. Zecchetto & C. B. da Silva
- S 180 Three-dimensional organization and dynamics of vortices in multichannel swirling jets
A. Ianiro, K. P. Lynch, D. Violato, G. Cardone & F. Scarano
- 211 Triadic resonances in the wide-gap spherical Couette system
A. Barik, S. A. Triana, M. Hoff & J. Wicht
- 244 Compressible flow at high pressure with linear equation of state
W. A. Sirignano
- 293 Understanding liquid-jet atomization cascades via vortex dynamics
A. Zandian, W. A. Sirignano & F. Hussain
- S 355 Experimental study of the convection in a rotating tangent cylinder
K. Aujogue, A. Pothérat, B. Sreenivasan & F. Debray
- 382 A Kármán–Howarth–Monin equation for variable-density turbulence
C. C. K. Lai, J. J. Charonko & K. Prestridge
- 419 Simulations of rib-roughened rough-to-smooth turbulent channel flows
U. Ismail, T. A. Zaki & P. A. Durbin
- 450 Effects of the finite particle size in turbulent wall-bounded flows of dense suspensions
P. Costa, F. Picano, L. Brandt & W.-P. Breugem
- 479 Surface wave effects on submesoscale fronts and filaments
J. C. McWilliams
- 518 Solution selection of axisymmetric Taylor bubbles
A. Doak & J.-M. Vanden-Broeck
- 536 On models for predicting thermodynamic regimes in high-pressure turbulent mixing and combustion of multispecies mixtures
G. Castiglioni & J. Bellan
- 575 Shear instability of an axisymmetric air–water coaxial jet
J.-P. Matas, A. Delon & A. Cartellier
- S 601 Thermoconvective instabilities of a non-uniform Joule-heated liquid enclosed in a rectangular cavity
F. Pigeonneau, A. Cornet & F. Lopépé
- 637 Small-solid-fraction approximations for the slip-length tensor of micropillared superhydrophobic surfaces
O. Schnitzer & E. Yariv

Contents continued on inside back cover.