



# Cambridge Core

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

Cambridge **Core**



CAMBRIDGE  
UNIVERSITY PRESS

# Physics

Books and Journals from  
Cambridge University Press

Cambridge University Press is a leading publisher of textbooks, handbooks and monographs that span all areas of physics, from condensed matter physics, to theoretical and mathematical physics.

We also publish a key cluster of journals including the *Journal of Plasma Physics*, *Journal of Fluid Mechanics*, and *High Power Laser Science and Engineering*.

For further details visit:  
[cambridge.org/core-physics](http://cambridge.org/core-physics)

Cambridge  
Core



CAMBRIDGE  
UNIVERSITY PRESS

- 521 Closure model for homogeneous isotropic turbulence in the Lagrangian specification of the flow field  
**M. Okamura**
- 552 Effects of surface roughness on a separating turbulent boundary layer  
**W. Wu & U. Piomelli**
- 581 Kinetic energy transfer in compressible isotropic turbulence  
**J. Wang, M. Wan, S. Chen & S. Y. Chen**
- 614 Damping of quasi-two-dimensional internal wave attractors by rigid-wall friction  
**F. Beckebanze, C. Brouzet, I. N. Sibgatullin & L. R. M. Maas**
- 636 Three-dimensional stability analysis for a salt-finger convecting layer  
**T.-Y. Chang, F. Chen & M.-H. Chang**
- 654 Prediction of near-wall turbulence using minimal flow unit  
**G. Yin, W.-X. Huang & C.-X. Xu**
- 674 Meridional dynamics of grounded abyssal water masses on a sloping bottom in a mid-latitude  $\beta$ -plane  
**G. E. Swaters**
- 702 The nature of triad interactions in active turbulence  
**J. Słomka, P. Suwara & J. Dunkel**
- S 732 Shock dispersal of dilute particle clouds  
**T. G. Theofanous, V. Mitkin & C.-H. Chang**
- 746 Dynamic stall in vertical axis wind turbines: scaling and topological considerations  
**A.-J. Buchner, J. Soria, D. Honnery & A. J. Smits**
- S 767 Moving contact-line mobility measured  
**Y. Xia & P. H. Steen**
- 784 Annular swirling liquid layer with a hollow core  
**P. M. Bardet, P. F. Peterson & Ö. Savaş**
- 825 Bulk scaling in wall-bounded and homogeneous vertical natural convection  
**C. S. Ng, A. Ooi, D. Lohse & D. Chung**
- 851 Mechanisms of dispersion in a porous medium  
**M. Dentz, M. Icardi & J. J. Hidalgo**
- 883 Unsteady Stokes flow near boundaries: the point-particle approximation and the method of reflections  
**A. Simha, J. Mo & P. J. Morrison**
- S 925 Stability of thin fluid films characterised by a complex form of effective disjoining pressure  
**M.-A. Y.-H. Lam, L. J. Cummings & L. Kondic**
- S 962 Evaporation-driven vapour microflows: analytical solutions from moment methods  
**A. S. Rana, D. A. Lockerby & J. E. Sprittles**
- 989 On the dynamics of a thin viscous film spreading between a permeable horizontal plate and an elastic sheet  
**F. Box, J. A. Neufeld & A. W. Woods**
- S 1012 Turbulence dynamics in separated flows: the generalised Kolmogorov equation for inhomogeneous anisotropic conditions  
**J.-P. Mollicone, F. Battista, P. Gaultieri & C. M. Casciola**
- 1040 On the interaction of very-large-scale motions in a neutral atmospheric boundary layer with a row of wind turbines  
**A. Önder & J. Meyers**
- 1073 Entrapping an impacting particle at a liquid–gas interface  
**H. Chen, H.-R. Liu, X.-Y. Lu & H. Ding**

### JFM Rapids (online only)

- R1 Modelling yawed wind turbine wakes: a lifting line approach  
**C. R. Shapiro, D. F. Gayme & C. Meneveau**
- R2 Surface tension of flowing soap films  
**A. Sane, S. Mandre & I. Kim**
- S R3 On triadic resonance as an instability mechanism in precessing cylinder flow  
**T. Albrecht, H. M. Blackburn, J. M. Lopez, R. Manasseh & P. Meunier**

S indicates supplementary data or movies available online.

- S 1 Experimental study of the mean structure and quasi-conical scaling of a swept-compression-ramp interaction at Mach 2  
**L. Vanstone, M. N. Musta, S. Seckin & N. Clemens**
- S 28 Dynamics of laser-induced cavitation bubbles near two perpendicular rigid walls  
**E.-A. Brujan, T. Noda, A. Ishigami, T. Ogasawara & H. Takahira**
- S 50 Spectral broadening of acoustic waves by convected vortices  
**V. Clair & G. Gabard**
- S 81 On the origin of spanwise vortex deformations in laminar separation bubbles  
**T. Michelis, S. Yarusevych & M. Kotsonis**
- 109 The initial development of a jet caused by fluid, body and free surface interaction with a uniformly accelerated advancing or retreating plate. Part 1. The principal flow  
**M. T. Gallagher, D. J. Needham & J. Billingham**
- 146 The initial development of a jet caused by fluid, body and free surface interaction with a uniformly accelerated advancing or retreating plate. Part 2. Well-posedness and stability of the principal flow  
**M. T. Gallagher, D. J. Needham & J. Billingham**
- 167 Spatio-temporal analysis of hydrodynamic forces on the particle bed in an oscillatory flow environment  
**C. D. Ghodke & S. V. Apte**
- 203 On the bulk motion of the cerebrospinal fluid in the spinal canal  
**A. L. Sánchez, C. Martínez-Bazán, C. Gutiérrez-Montes, E. Criado-Hidalgo, G. Pawlak, W. Bradley, V. Haughton & J. C. Lasheras**
- 228 Path oscillations and enhanced drag of light rising spheres  
**F. Auguste & J. Magnaudet**
- 267 Flow rate–pressure drop relation for deformable shallow microfluidic channels  
**I. C. Christov, V. Cognet, T. C. Shidhore & H. A. Stone**
- 287 Ice breaking by a collapsing bubble  
**P. Cui, A. M. Zhang, S. P. Wang & B. C. Khoo**
- 310 The effect of ions on the motion of an oil slug through a charged capillary  
**Z. M. Wilmott, C. J. W. Breward & S. J. Chapman**
- 351 Mean turbulence statistics in boundary layers over high-porosity foams  
**C. Efstathiou & M. Luhar**
- S 380 Instabilities and small-scale waves within the Stewartson layers of a thermally driven rotating annulus  
**Th. von Larcher, S. Viazzo, U. Harlander, M. Vincze & A. Randriamampianina**
- S 408 Drop deformation and emulsion rheology under the combined influence of uniform electric field and linear flow  
**S. Mandal, S. Sinha, A. Bandopadhyay & S. Chakraborty**
- 434 Condensates in rotating turbulent flows  
**K. Seshasayanan & A. Alexakis**
- 463 On a unified breaking onset threshold for gravity waves in deep and intermediate depth water  
**X. Barthelemy, M. L. Banner, W. L. Peirson, F. Fedele, M. Allis & F. Dias**
- S 489 Large-deformation electrohydrodynamics of an elastic capsule in a DC electric field  
**S. Das & R. M. Thaokar**

Contents continued on inside back cover.

Cambridge Core

For further information about this journal please go to the journal web site at [cambridge.org/flm](http://cambridge.org/flm)



MIX  
Paper from  
responsible sources  
FSC® C007785

CAMBRIDGE  
UNIVERSITY PRESS