Access leading journals in your subject

Cambridge Core

Explore today at cambridge.org/core

Cambridge Core



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

> 透透 CAMBRIDGE 资 UNIVERSITY PRESS

Cambridge **Core**

- 572 Resolvent-analysis-based design of airfoil separation control
 C.-A. Yeh & K. Taira
- 611 Supersonic flow around a cylinder with a permeable high-porosity insert: experiment and numerical simulationA. A. Maslov, S. G. Mironov,
 - T. V. Poplavskaya & S. V. Kirilovskiy
- 633 On the surface expression of a canopy-generated shear instability
 T. L. Mandel, S. Gakhar, H. Chung,
 I. Rosenzweig & J. R. Koseff
- 661 Decay of turbulence in a liquid metal duct flow with transverse magnetic field
 O. Zikanov, D. Krasnov, T. Boeck & S. Sukoriansky
- S 691 Transition to the secondary vortex street in the wake of a circular cylinderH. Jiang & L. Cheng
 - 723 Decomposition of wake dynamics in fluid–structure interaction via low-dimensional models

T. P. Miyanawala & R. K. Jaiman

- 765 Effects of Schmidt number on the short-wavelength instabilities in stratified vorticesS. Singh & M. Mathur
- 804 Acoustic modes in jet and wake stability E. Martini, A. V. G. Cavalieri & P. Jordan

JFM Perspectives (online only)

P1 Beyond Kolmogorov cascades B. Dubrulle

JFM Rapids (online only)

R1 Pressure impulse theory for a slamming wave on a vertical circular cylinder

A. Ghadirian & H. Bredmose

S indicates supplementary data or movies available online.

- 835 Flow of a thin liquid-metal film in a toroidal magnetic fieldD. Lunz & P. D. Howell
- 877 Non-Gaussianity in turbulent relative dispersionB. J. Devenish & D. J. Thomson
- 906 Resolved and subgrid dynamics of Rayleigh–Bénard convection
 R. Togni, A. Cimarelli & E. De Angelis
- *S* 934 Relaminarising pipe flow by wall movement **D. Scarselli, J. Kühnen & B. Hof**
 - 949 Lubricating motion of a sphere towards a thin porous slab with Saffman slip conditionS. Khabthani, A. Sellier & F. Feuillebois
 - 969 On the relevance of Reynolds stresses in resolvent analyses of turbulent wall-bounded flows
 P. Morra, O. Semeraro, D. S. Henningson & C. Cossu
 - 985 An unexpected balance between outer Rayleigh streaming sources
 D. Baltean-Carlès, V. Daru, C. Weisman,
 S. Tabakova & H. Bailliet
- 1012 Magneto-Rayleigh–Taylor instability in an elastic finite-width medium overlying an ideal fluid
 S. A. Piriz, A. R. Piriz & N. A. Tahir

 S R2 A conditional space-time POD formalism for intermittent and rare events: example of acoustic bursts in turbulent jets
 O. T. Schmidt & P. J. Schmid

ISSN 0022-1120

567

Journal of Fluid Mechanics

- Load and loss for high-speed lubrication flows of pressurized gases between non-concentric cylinders
 S. Y. Chien & M. S. Cramer
- 26 Unstable jets generated by a sphere descending in a very strongly stratified fluid
 S. Akiyama, Y. Waki, S. Okino &
 H. Hanazaki
- 45 Investigation of the influence of combustion-induced thermal expansion on two-point turbulence statistics using conditioned structure functions
 V. A. Sabelnikov, A. N. Lipatnikov,

S. Nishiki & T. Hasegawa

- 77 Numerical analysis of flow-induced rotation of an S-shaped rotorY. Ueda
- S 114 Rotating planar gravity currents at moderate Rossby numbers: fully resolved simulations and shallow-water modelling
 J. S. Salinas, T. Bonometti, M. Ungarish & M. I. Cantero
- S 146 A new model of shoaling and breaking waves.Part 2. Run-up and two-dimensional wavesG. L. Richard, A. Duran & B. Fabrèges
 - 195 Cascades of temperature and entropy fluctuations in compressible turbulence J. Wang, M. Wan, S. Chen, C. Xie, L.-P. Wang & S. Chen
 - 216 Turbulence decay in a supersonic boundary layer subjected to a transverse sonic jet M. B. Sun, Y. Liu & Z. W. Hu
 - 250 Compressible unsteady Görtler vortices subject to free-stream vortical disturbances S. Viaro & P. Ricco
- S 300 The transient force profile of low-speed droplet impact: measurements and model
 B. R. Mitchell, J. C. Klewicki, Y. P. Korkolis
 & B. L. Kinsey

Contents continued on inside back cover.

- 323 On the inference of the state of turbulence and mixing efficiency in stably stratified flowsA. Garanaik & S. K. Venayagamoorthy
- 334 Electrohydrodynamics of deflated vesicles: budding, rheology and pairwise interactionsB. Wu & S. Veerapaneni
- 348 Finite-amplitude steady-state wave groups with multiple near-resonances in finite water depth
 Z. Liu & D. Xie
- 374 Upward versus downward non-Boussinesq turbulent fountains
 S. Vaux, R. Mehaddi, O. Vauquelin & F. Candelier
- 392 An empirical expression for ε_θ on the axis of a slightly heated turbulent round jet
 J. Lemay, L. Djenidi, R. A. Antonia &
 A. Benaïssa
- 414 Dynamics of spatially localized states in transitional plane Couette flowA. Pershin, C. Beaume & S. M. Tobias
- 438 On the time scales and structure of Lagrangian intermittency in homogeneous isotropic turbulence
 R. Watteaux, G. Sardina, L. Brandt & D. Iudicone
- 482 On Bragg resonances and wave triad interactions in two-layered shear flows**R. Raj & A. Guha**
- 516 Mode competition in galloping of a square cylinder at low Reynolds numberX. Li, Z. Lyu, J. Kou & W. Zhang
- S 556 Capillary waves control the ejection of bubble bursting jets
 J. M. Gordillo & J. Rodríguez-Rodríguez

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



MIX Paper from responsible sources FSC® C007785

