

VOLUME 463

25 JULY 2002

# Journal of Fluid Mechanics

Ref: BT PF 160102/09 Df: 31146511  
JOURNAL OF FLUID MECHANICS  
25.07.02 Vol: 463  
0022-1120 22304673 06.08.02  
EDITIONS CHIHAB  
ZI. LOT B5  
B.P.744 REGHAIA  
GG ALGER  
ALGERIE



**CAMBRIDGE**  
UNIVERSITY PRESS



<b>P. Vlahovska, J. Bławdziewicz &amp; M. Loewenberg</b>	Nonlinear rheology of a dilute emulsion of surfactant-covered spherical drops in time-dependent flows	1
<b>I. Evers &amp; N. Peake</b>	On sound generation by the interaction between turbulence and a cascade of airfoils with non-uniform mean flow	25
<b>M. M. Rogers</b>	The evolution of strained turbulent plane wakes	53
<b>K. Shariff &amp; A. Wray</b>	Analysis of the radar reflectivity of aircraft vortex wakes	121
<b>P. J. Schmid &amp; D. S. Henningson</b>	On the stability of a falling liquid curtain	163
<b>G. L. Korolev, J. S. B. Gajjar &amp; A. I. Ruban</b>	Once again on the supersonic flow separation near a corner	173
<b>S. Kang &amp; H. Choi</b>	Suboptimal feedback control of turbulent flow over a backward-facing step	201
<b>I. Grants &amp; G. Gerbeth</b>	Linear three-dimensional instability of a magnetically driven rotating flow	229
<b>M. V. Melander &amp; B. R. Fabijonas</b>	Self-similar enstrophy divergence in a shell model of isotropic turbulence	241
<b>T. W. Mattner, P. N. Joubert &amp; M. S. Chong</b>	Vortical flow. Part 1. Flow through a constant-diameter pipe	259
<b>Y. J. P. Lin &amp; P. F. Linden</b>	Buoyancy-driven ventilation between two chambers	293
<b>K. B. M. Q. Zaman, M. D. Dahl, T. J. Bencic &amp; C. Y. Loh</b>	Investigation of a 'transonic resonance' with convergent-divergent nozzles	313
<b>M. Rieutord, L. Valdettaro &amp; B. Georgeot</b>	Analysis of singular inertial modes in a spherical shell: the slender toroidal shell model	345
<b>A. P. Willis &amp; C. F. Barenghi</b>	Hydromagnetic Taylor-Couette flow: numerical formulation and comparison with experiment	361
<b>I. Lee &amp; H. J. Sung</b>	Multiple-arrayed pressure measurement for investigation of the unsteady flow structure of a reattaching shear layer	377
<b>R. J. Hill</b>	Possible alternative to $R_\lambda$ -scaling of small-scale turbulence statistics	403
<b>INDEX TO VOLUME 463</b>		413

