

VOLUME 386

10 MAY 1999

# Journal of Fluid Mechanics

Ref: C 2 FF 171198/01      Df: 2774521-  
JOURNAL OF FLUID MECHANICS  
10.05.99    Vol: 386  
0022-1120      22101144      15.07.99  
LIBRIS  
144 BOULEVARD KRIM BELKACEM  
ALGER  
ALGERIE

**CAMBRIDGE**  
UNIVERSITY PRESS

Sir James Lighthill		1
<b>N. G. Kuznetsov &amp; M. J. Simon</b>	A note on uniqueness in the linearized water-wave problem	5
<b>H. M. Schuttelaars &amp; H. E. de Swart</b>	Initial formation of channels and shoals in a short tidal embayment	15
<b>V. A. Vladimirov &amp; K. I. Ilin</b>	On the stability of the dynamical system 'rigid body + inviscid fluid'	43
<b>S. Attinger, M. Dentz H. Kinzelbach &amp; W. Kinzelbach</b>	Temporal behaviour of a solute cloud in a chemically heterogeneous porous medium	77
<b>G. Gauthier, P. Gondret &amp; M. Rabaud</b>	Axisymmetric propagating vortices in the flow between a stationary and a rotating disk enclosed by a cylinder	105
<b>D. D. Joseph, R. Bai, C. Mata, K. Sury &amp; C. Grant</b>	Self-lubricated transport of bitumen froth	127
<b>P. D. Anderson, O. S. Galaktionov, G. W. M. Peters, F. N. van de Vosse &amp; H. E. H. Meijer</b>	Analysis of mixing in three-dimensional time-periodic cavity flows	149
<b>L. Shen, X. Zhang D. K. P. Yue &amp; G. S. Triantafyllou</b>	The surface layer for free-surface turbulent flows	167
<b>G. Ben-Dor, T. Elperin H. Li &amp; E. Vasiliev</b>	The influence of the downstream pressure on the shock wave reflection phenomenon in steady flows	213
<b>R. Porter &amp; D. V. Evans</b>	Rayleigh–Bloch surface waves along periodic gratings and their connection with trapped modes in waveguides	233
<b>T. Utsunomiya &amp; R. Eatock Taylor</b>	Trapped modes around a row of circular cylinders in a channel	259
<b>L. Jiang, H.-J. Lin W. W. Schultz &amp; M. Perlin</b>	Unsteady ripple generation on steep gravity–capillary waves	281
<b>R. Ford &amp; S. G. Llewellyn Smith</b>	Scattering of acoustic waves by a vortex	305
<b>B. S. White</b>	Wave action on currents with vorticity	329
<b>J. E. Cohen &amp; S. E. Belcher</b>	Turbulent shear flow over fast-moving waves	345
<b>A. F. Messiter &amp; D. Davis</b>	A note on nearly two-dimensional weakly nonlinear instability of an incompressible free shear layer	373
INDEX TO VOLUME 386		378
SCHEDULE OF INTERNATIONAL CONFERENCES ON FLUID MECHANICS		380

