

Contents of Volume 48 (2004)

Vol. 48 No. 1 January 2004

S. Pelipenko and I.A. Frigaard: Mud removal and cement placement during primary cementing of an oil well	1–26
A. Leontiev, R.S. Busse and W. Huacasi: A mathematical approach to a forest-impact problem	27–42
A. Sansom, J.R. King and D.S. Riley: Degenerate-diffusion models for the spreading of thin non-isothermal gravity currents	43–68
L.K. Forbes, G.C. Hocking and S. Wotherspoon: Salt-water up-coning during extraction of fresh water from a tropical island	69–91

Vol. 48 No. 2 February 2004

E. Magyari, I. Pop and B. Keller: Analytical solutions for unsteady free convection in porous media	93–104
K. Takagi: Quarter-plane problem of a floating elastic plate	105–128
M.D. Finn, S.M. Cox and H.M. Byrne: Mixing measures for a two-dimensional chaotic Stokes flow	129–155
L. Greengard and M.C. Kropinski: Integral equation methods for Stokes flow in doubly-periodic domains	157–170
L.-Q. Chen, J.W. Zu, J. Wu and X.-D. Yang: Transverse vibrations of an axially accelerating viscoelastic string with geometric nonlinearity	171–182

Vol. 48 Nos. 3–4 April 2004

Mathematical Models of Water Impact and Associated Phenomena *Guest edited by: Alexander Korobkin*

Preface	183–185
O.M. Faltinsen, M. Landrini and M. Greco: Slamming in marine applications	187–217
L.E. Fraenkel and G. Keady: On the entry of a wedge into water: The thin wedge and an all-purpose boundary-layer equation	219–252
W.S. Vorus: A compliant-hull concept for planning craft wave-impact shock reduction	253–277

C. Judge, A. Troesch and M. Perlin: Initial water impact of a wedge at vertical and oblique angles	279–303
R. Cointe, E. Fontaine, B. Molin and Y.M. Socolan: On energy arguments applied to the hydrodynamic impact force	305–319
S.D. Howison, J.R. Ockendon and J.M. Oliver: Oblique slamming, planing and skimming	321–337
K. Takagi: Numerical evaluation of three-dimensional water impact by the displacement potential formulation	339–352
D. Battistin and A. Iafrati: A numerical model for the jet flow generated by water impact	353–374
W.G. Szymczak, S.L. Means and J.C.W. Rogers: Computations of bubble formation and pulsations generated by impacting cylindrical water jets	375–389
A. Pearson, J.R. Blake and S.R. Otto: Jets in bubbles	391–412
Author index	413
Contents of Volume 48	415–416