Contents of Volume 51 (2005)

Vol. 51 No. 1 January 2005	
R. Zhang and X.K. Li: Non-Newtonian effects on lubricant thin-film flows	1–13
XG. Yuan, ZY. Zhu and CJ. Cheng: Study on cavitated bifurcation problems for spheres composed of hyper-elastic materials	15–34
W.S. Vorus: Swimming of the semi-infinite strip revisited	35–55
P.D.M. Spelt, T. Selerland, C.J. Lawrence and P.D. Lee: Flows of inelastic non-Newtonian fluids through arrays of aligned cylinders. Part 1. Creeping flows	57–80
P.D.M. Spelt, T. Selerland, C.J. Lawrence and P.D. Lee: Flows of inelastic non-Newtonian fluids through arrays of aligned cylinders. Part 2. Inertial effects for square arrays	81–97
Vol. 51 No. 2 February 2005	
A. lafrati and A.A. Korobkin: Starting flow generated by the impulsive start of a floating wedge	99–126
W. Fang and E. Cumberbatch: Matrix properties of data from electrical capacitance tomography	127–146
JL. Achard and SC. Georgescu: Quasi-steady formation of bubbles and drops viewed as processes that break bifurcation	147–164
R. Bürger, K.H. Karlsen and J.D. Towers: Closed-form and finite difference solutions to a population balance model of grinding mills	165–195
Vol. 51 No. 3 March 2005	
Non-Traditional Boundary (-Domain) Integral-Equation Methods Edited by: S.E. Mikhailov	
S.E. Mikhailov: Will boundary(-domain) integral-equation methods survive? Preface to the special issue on non-traditional boundary (-domain) integral-equation methods	197–198
I. Chudinovich, C. Constanda and O. Dolberg: On the Laplace transform of a matrix of fundamental solutions for thermoelastic plates	199–209
J. Purbolaksono and M.H. Aliabadi: Large deformation of shear-deformable plates by the boundary-element method	211–230
R. Hiptmair and J. Ostrowski: Coupled boundary-element scheme for eddy-current computation	231–250
S.E. Mikhailov and I.S. Nakhova: Mesh-based numerical implementation of the localized boundary-domain integral-equation method for a variable-coefficient Neumann problem	251–259

251-259

404 Contents of Volume 51

V. Sladek, J. Sladek and Ch. Zhang: Local integro-differential equations with domain elements for the numerical solution of partial differential equations with variable coefficients	261–282
S.E. Mikhailov: Localized direct boundary-domain integro-differential formulations for scalar nonlinear boundary-value problems with variable coefficients	283–302
Vol. 51 No. 4 April 2005	
G. Payre: On the motion of mechanical networks	303–316
R.C. Shah and M.V. Bhat: Ferrofluid squeeze film between curved annular plates including rotation of magnetic particles	317–324
D.O. Olagunju: Secondary flow in non-isothermal viscoelastic parallel-plate flow	325–338
A. Maciag and J. Wauer: Solution of the two-dimensional wave equation by using wave polynomials	339–350
T. Götz and H.A. Parhusip: On an asymptotic expansion for Carreau fluids in porous media	351–365
Y. He, A. Wang and L. Mei: Stabilized finite-element method for the stationary Navier-Stokes equations	367–380
T. Ulicevic, J.M.B. Kroot, S.J.L. van Eijndhoven and A.A.F. van de Ven: Current distribution in a parallel set of conducting strips	381–400
Author Index, Volume 51 (2005)	401
Contents of Volume 51 (2005)	403–404