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Keynote Lectures Long-period oscillations in a harbor excited by broad-banded random sea waves Boundary layer flows under solitary wave Hydrodynamic problems associated with construction of sea-crossing bridges Origin of vortical action as the fabric of the universe Recent progress in dynamics of boundary layer transition Lattice Boltzmann models for hydrodynamics Numerical simulation of aquatic eco-environment of Bo Hai BaySession A1 Exact variational formrlation of free-surface gravity flow around hydrofoil accounting for surface tension Nuclear Solitary Wave Finding multiple solutions of nonlinear problems by means of the homotopy analysis method Dispersion in open-channel flow subject to the processes of sorptive exchange on the bottom and air-water exchange on the free surface The effect of temperature distribution on the mass species transport in the micro—channel driven by electroosmosisSession B1 The gas-kinetic scheme for shallow water equations Numerical analysis of the effects of sinker weight on the hydrodynamics behaviour of gravity cage net in uniform flow An efficient computational method for nonlinear three-dimensional wave-wave and wave-body Interaction Boussinesq-type modeling in surf zone using mesh-less least-square-based finite difference method Modeling of liquid-solid flows with large number of moving particle by multigrid fictitious boundary methodSession A2 The Lie-group shooting method for boundary layer equations in fluid mechanics The coagulation and re-separation process of particles in a slow viscous flow A unified framework for incompressible and compressible fluid flows Euler/Euler theory and application of fluid-particle two-phase jetSession B2 Simulations of interactions between nonlinear waves and multi or an array of cylinders The numerical simulation of local scour in front of a vertical-wall breakwater A Finite element solution of wave forces on a horizontal circular cylinder close to the sea-bed Numerical study on flow and dispersion in urban street canyons of asymmetrical configurations Application of a three-point explicit compact difference scheme to the incompressible Navier-Stokes equationsSession A3 Modelling of the wave-current interaction in the pearl fiver estuary ……Session B3Session A4Session B4Session A5Session B5Session A6Session B6Session A7Session B7Session A8Session B8

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