

MATHEMATICAL MODELING OF DISTRIBUTION OF WAVES ON THE BASIS OF EXACT SOLUTIONS OF THE EQUATIONS OF NAVIER-STOKES

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In work on the basis the two-dimensional equations of Navier-Stokes, for viscous incompressible liquid, distribution and gradual, slow attenuation of waves of a tsunami is modelled. Exact solutions of the two-dimensional equations of Navier-Stokes which write distribution of waves of a tsunami are found. On the basis synthesis of approach, to finding of the exact solution of the equations of Navier-Stokes, solutions for the description of dynamics of the progressing waves of viscous incompressible liquid are found