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SOLITARY WAVES IN TWO-LAYER LIQUID WITH REGARD TO SURFACE TENSION

Abstract

We consider stability of hydrodynamic system when a layer of more light liquid with free surface is on the layer of more heavy liquid. It is shown that two types of solitary waves may propagate on the free surface and on interface: classic solitary and generalized-solitary waves, moreover, surface tension coefficient has more considerable effect on motion velocity of generalized-solitary waves, than on velocity of classic solitary waves.