Gabil A. ALIYEV

PULSATING FLOW OF BUBBLE LIQUID IN A VISCO-ELASTIC TUBE NON-HOMOGENEOUS IN LENGTH

Abstract

At present, the problems of mathematical physics, concerned with description of wave motions of different nature liquids, in particular, multiphase ones in deformed tubes draw great attention. This interest is stipulated not only by large applied significance of the indicated problems (transportation process in different chemical-engineering devices, hemodynamics, tubeline transportation), but also by their new theoretical and mathematical contents, which often don't have analogies in classical mathematical physics. The given paper, in development [1], in devoted to statement of the results, concerned with the problem of mathematical description of one class of motion of ideal compressible barotropic diphase bubble liquid , enclosed to semi-infinite viscous-elastic tube non-homogeneous by the length.