APPLIED PROBLEMS OF MATHEMATICS AND MECHANICS

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INFLUENCE OF DISSOLVABLE GAS BUBBLES ON FILTRATIONAL PROPERTIES OF FLUID

Abstract

In the article, different aspects of influence of microbubbles of liquid-dissolved gas on a filtration of gas-liquid medium are discussed. The offered method allows to receivie mathematical description of nonequilibrium extraction of gas with regard to non-stationary stute of gas bubbles growth process. It is received self-model solution of behavior of a bubble in supersaturated by gas liquid. Influence of parameter of Jacob on speed of gas extraction is obtained.