



Soviet-era science, translated into English

Z. N. Dobrovolskaya

1964

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Abstract

Full Text

CORRECTION

In my article (Z. N. Dobrovolskaya, “On the character of the contact of the free surface of a liquid with a solid boundary in the problem of wedge penetration,” published in *DAN*, vol. 153, No. 4, 1963), in the analysis of equation (4.3) an elementary error was made, to which S. S. Grigoryan kindly drew attention. In connection with this, the conclusion that the contact angle $\beta = \pi/2$ is incorrect; this, however, does not affect the possibility of reducing the general solution of the problem to the integration of a singular integral equation for a real function.

Let us note that in fact $0 \leq \beta \leq \pi/4$, and the free surface can have, at the contact point, a finite curvature different from zero only when $\beta = \pi/6$.

Z. N. Dobrovolskaya

Note: Figure translations are in progress. See original paper for figures.

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