

On explosion of linearly distributed charge of curvilinear form beneath the ground surface

Kotlyar L., Voronkova A.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

©Allerton Press, Inc. In impulse statement, we consider a two-dimensional problem on explosion of a linearly distributed charge of curvilinear form beneath the ground surface. The problem is reduced to the study of the flow of an ideal fluid with a free surface. The flow area is conformally mapped onto a ring. A mapping is constructed by numerical-analytic method. We give the results of the calculation of the blowout funnel at various geometric and physical parameters.

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Keywords

Charge, Fluid, Free surface, Funnel, Parameter, Problem