

Iterative methods for finding the boundaries of unrecovered viscoplastic oil in multilayer beds

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Abstract

We suggest a generalized statement of the problem of finding the boundaries of limit-equilibrium unrecovered viscoplastic oil in multilayer beds in the form of a mixed variational inequality. We analyze the solvability of the problem. For its solution, we suggest an iterative method whose each step can essentially be reduced to the solution of the Dirichlet problem for the Poisson equation. © Pleiades Publishing, Ltd., 2009.

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