

Seepage optimization of the shape of an earth channel allowing for capillarity

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Abstract

The channel shape minimizing the seepage losses for a given cross-section area is determined under the conditions of headless steady plane seepage. The solution is constructed using the theory of inverse boundaryvalue problems in the form of dependences of geometrical and seepage characteristics of the sought channel on given parameters - the area and the height of capillary rise. © 1993 Plenum Publishing Corporation.

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