

About existence and uniqueness of a solution of a boundary-value problem with free boundary for a system of quasilinear parabolic equations

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We study a mathematical model of the process of filtration consolidation of soils under conditions of the influence of technogenic factors [1, 2, 3, 4], which is described with a boundary-value problem with free boundary for a system of quasilinear parabolic equations. The existence and the uniqueness of a local-in-time solution of the one dimensional boundary-value problem in Hölder spaces are proved [5].

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