



CALCULATION OF A TUNNEL WITH AN INCLINED GROUND SURFACE UNDER THE ACTION OF INTERNAL PRESSURE TAKING INTO ACCOUNT CREEP

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Abstract. A mathematical model of the stress state formation of a circular tunnel constructed near a slope under the action of internal pressure is described. The model is based on the principle of joint operation of the tunnel and the soil mass as elements of a single deformable system. The corresponding plane problem of the theory of elasticity is formulated and its analytical solution is obtained by methods of the theory of functions of complex variables.

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