Geometrically nonlinear deformation elastoplastic soil

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Abstract

© 2014 D. V. Berezhnoi, A. A. Sachenkov and M. K. Sagdatullin. In work statement of a problem of numerical modeling of finite deformations elastoplastic soil environments, focused on application FEM is given. Implemented and tested method of solving the problem of elastic-plastic deformation of soil masses on the basis of defining relations between the increments of the true stress and strain, resolved a number of model problems of determining the stress-strain and limiting condition of soils.

Keywords

A method of finite elements, Elastoplastic soil, Finite strains