

# Modeling of deformation of ground media on the basis of the particle method in a two-dimensional formulation

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## Abstract

© Published under licence by IOP Publishing Ltd. A two-dimensional version of the soil deformation method based on the particle method is implemented in this paper. For describing the behavior of a continuous medium, the previously used two-parameter "modified" Lennard-Jones interaction potential was chosen. A number of model problems describing the loss of stability of the soil embankment in the field of gravity and the destruction of the soil under the action of the liquid phase are solved.

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