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## Research of interaction of the deformable designs located in the soil

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### Abstract

© 2014 D. V. Berezhnoi et al. In work construction of algorithm of the contact interaction based on introduction between parts of designs of a special contact layer is considered. Different variants of the deformation of the contact layer, for clarity presented by two overlays, depending on the impact of the efforts of substructures at each other. A general governing equation, which is solved on the basis of physically nonlinear problem formulated. To solve the problem, a method of solving problems in increments when iteration step the unknowns are not full of the displacement field, and their increments. It is solved model problems about modeling of stage-by-stage dredging from a foundation ditch with retaining walls.

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### Keywords

A method of finite elements, Contact interaction, Soils