

**PROBLEM OF IDENTIFICATION OF INTENSITY OF THE PIECE-WISE LINEAR INCLINED LOAD  
ON THE BASIS OF THE SOIL SEDIMENT VALUE OF THE SOIL MASS**

The authors have identified the relation between the value of intensity of the piece-wise linear inclined load, displacement of the pre-set area of the half-plane boundary and the soil sediment value. Availability of this relation makes it possible to identify the value of intensity of the inclined load applied to the pre-set section on the basis of the displacement, sediments and physical-mechanical properties of the medium. Examples of solutions to the aforementioned problem are provided in respect of an arbitrary trapezoidal inclined load.

**Key words:** piecewise linear load, soil mass sediment, half plane.

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**About the authors:** **Bogomolov Aleksandr Nikolaevich** — Doctor of Technical Sciences, Professor, Vice-rector for Research, Chair, Department of Hydraulic Engineering and Earthwork Structures, **Volgograd State University of Architecture and Civil Engineering (VSUACE)**, 1 Akademicheskaya St., Volgograd, 400074, Russian Federation; banzaritcyn@mail.ru; +7 (8442) 96-99-54;

**Ushakov Andrey Nikolaevich** — Candidate of Technical Sciences, Associate Professor, doctorate student, Department of Hydraulic Engineering and Earthwork Structures, **Volgograd State University of Architecture and Civil Engineering (VSUACE)**, 1 Akademicheskaya St., Volgograd, 400074, Russian Federation; andrey.ushakov@vgi.volsu.ru; +7 (8442) 96-99-54.

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