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THE SPH-REALIZATION OF THE GRANULAR MEDIUM MOTION MODEL

The paper proposes to apply a variation of the reduced hypoplastic model the granular medium motion modeling. To solve the problem the variant of SPH method with the minimum parameter of smoothing of the required functions has been chosen. The calculation of the sand column collapse has been performed. Comparison of the numerical simulation results with the experimental data shows good agreement.

Keywords: granular medium motion, hypoplastic constitutive equation, Drucker-Prager yield criterion, SPH.

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