



Agricultural Journals

Research in

**AGRICULTURAL
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Subscription

Res. Agr. Eng.

V. Bulgakov, I.

Holovach, M.

Berezovyy

oscillations of the sugar beet root crop body at vibrational digging up from soil

Res. Agr. Eng., 51 (2005): 99-104

The longitudinal vibrations theory of a continuous elastic body with one fixed extremity is designed. The Ostrogradskii– Hamilton principle of a stationary operation is applied. By Ritz' method the Ritz' s equation of frequencies for viewed oscillatory proces is obtained. In particular analytical expressions for definition of the first and second fundamental frequencies of body oscillations and forced oscillations amplitude of its any cross-section are