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Res. Agr. Eng.

D. Herák, R. Chotěborský, A. Sedláček, E. Jančа

Exploitation of Hertz s contact pressures in friction drives

Res. Agr. Eng., 52 (2006): 107-113

The paper is intent on the applications of equations which describe the Hertz ' s surface pressures in friction drives. In the paper the reduced equations are derived which are useful to the surface pressures calculation in friction drives when ball – ball, cylinder – cylinder, cone – cone are kept in touch and their graphical representation of stress distribution in the contact area is presented. Using the Hertz ' s surface pressures and the Mohr ' s circles the substance of pitting start is derived and the stress distributions using the elementary joists, which were situated on the axe *z* in the section under the contact joist, are