

SURVEYING THE TRANSIENT OPERATING REGIMES OF A DRIVING MECHANISM WITH A HYDRODYNAMIC COUPLING

UDC:629.028

Hydrodynamic coupling is used as a part of a power transmission system with the main purpose of starting moderation of an output working device, with driving motor fast passing through the inconvenient operating regime. Although the main advantages of a hydrodynamic coupling become evident during transient operating regime, insufficient attention has been paid to the determining of starting phase duration in a planning phase. The paper proposes an enhanced procedure of surveying and calculating the starting regime duration of a driving mechanism with a hydrodynamic coupling, applicable in a little bit expanded form in case of a hydrodynamic torque transformer, too.

Key words: hydrodynamic coupling.

PRAĆENJE PRELAZNIH REŽIMA RADA POGONSKOG MEHANIZMA SA HIDRODINAMIČKOM SPOJNICOM

Hidrodinamička spojnica koristi se u sklopu prenosnika snage, sa osnovnim ciljem ublažavanja zaleta radnog uređaja, uz brzi prolazak pogonskog motora kroz za njega nepovoljni režim rada. No, iako se osnovne prednosti upotrebe hidrodinamičke spojnice iskazuju u tranzijentnom režimu rada, određivanju vremena zaleta u fazi projektovanja se ne posvećuje dovoljna pažnja. U radu je predložen postupak za poboljšanje praćenja rada i određivanja vremena zaleta pogonskog mehanizma sa hidrodinamičkom spojnicom, primenljiv u nešto proširenom obliku i na hidrodinamički pretvarač.

Ključne reči: hidrodinamička spojnica.,