



ANALIZA OTKAZA KARDANSKOG PRENOSNIKA

FAULT ANALYSIS OF POWER TRANSMITTER WITH CARDAN JOINTS

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Rezime: *Primenom metode Analize stabla otkaza (Fault Tree Analysis - FTA) u radu je izvršena analiza uzroka otkaza kardanskog prenosnika. U prvom delu rada dat je opis ove metode, prikaz metodologije formiranja stabla otkaza i struktura i način funkcionisanja kardanskog prenosnika. Na osnovu detaljne analize strukture i načina funkcionisanja elemenata razmatranog objekta i drugih relevantnih podataka, u drugom delu rada, deduktivnom analizom formirano je stablo otkaza, izvršena analiza mogućih načina otkaza i date su mogućnosti primene dobijenih rezultata.*

Ključne reči: pouzdanost, analiza stabla otkaza, kardanski prenosnik

Abstract: *The analysis of causes of failure of power transmitter with Cardan joints with application of the Fault Tree Analysis – FTA method is presented in the paper. Description of the FTA method, a review of the FTA methodology of forming of the fault tree and the structure and the way of functioning power transmitter with Cardan joints are pointed out in the introduction of the paper. Based on detailed review of the structure and the way of the functioning of the elements of the observed object and other relevant data, in second part of the paper, a fault tree for power transmitter with Cardan joints is formed using the deductive analysis method, done the analysis possible of the way of fault and the paper presents possible applications of the archived results.*

Key words: reliability, fault tree analysis, power transmitter with Cardan joints