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ENERGY BALANCE FOR EXPLICIT DYNAMIC ANALYSIS OF CONTACT PROBLEMS

During the control of the energy balance in impact problems of axisymmetric structures carried out with explicit algorithms, its possible to reveal an irregular trend of the variables, in particular of the energy variation. The aim of this note is to look for an answer at this behaviour.

Key words: Kinetic energy, internal energy, impact.

BALANS ENERGIJE U EKSPlicitNOJ DINAMIČKOJ ANALIZI KONTAKTNIH PROBLEMA

Proverom ravnoteže energije u problemima udara aksijalno simetričnih struktura, koja se vrši explicitnim postupkom, imoguće je prevazići neregularnost nekih varijabli koje figurišu u promeni energije. Ovaj rad ima za cilj da rasvetli takva pitanja.

Ključne reči: kinetička energija, unutrašnja energija, udar