



101010101010011010000111100100101100101010101010101010101010101001101000011110

Početna stranica
Abecedni popis časopisa

Časopisi po područjima

Prirodne znanosti
Tehničke znanosti
Biomedicina i zdravstvo
Biotehničke znanosti
Društvene znanosti
Humanističke znanosti

Uredništva

Prijava novog časopisa



 ScientificCommons



Drvna industrija, Vol.60 No.1 March 2009.

Izvorni znanstveni članak

Finite volume method for analysis of stress and strain in wood

Izet Horman; Faculty of Engineering, University of Sarajevo, Bosnia and Herzegovina
Dunja Martinović; Faculty of Engineering, University of Sarajevo, Bosnia and Herzegovina
Seid Hajdarević; Faculty of Engineering, University of Sarajevo, Bosnia and Herzegovina

[Puni tekst \(Engleski\) Str. 27 - 32](#) (pdf, 1.32 MB) downloads: 106

Sažetak

This paper presents a numerical method (the finite volume method) for analysing stress and strain in wood as a solid body. The method is very simple and easy to use. It starts from an integral form of the equations governing momentum, heat and mass balance. Second-order in both time and space finite volume discretisation is performed using the corresponding constitutive relations, resulting in a set of algebraic equations, which are then solved by an efficient segregated iterative procedure. In order to demonstrate the method's possibilities, stress and deformation are analysed in a loaded chair and in wood samples during the process of wood drying and steaming.

Ključne riječi

finite volume method; chair; wood; drying; steaming

[Hrvatski]

Posjeta: 104 (od 01.01.2007.)



Pretraživanje članaka

traži ►

Napredno pretraživanje

Upute za pretraživanje

Moj profil

Registracija novih korisnika

Korisnička oznaka (email)

Lozinka

►

Zaboravili ste lozinku?

Srce