Accepted Manuscript

Rheological model for wood

Mohammad Masoud Hassani, Falk K. Wittel, Stefan Hering, Hans J. Herrmann

PII:	S0045-7825(14)00401-0
DOI:	http://dx.doi.org/10.1016/j.cma.2014.10.031
Reference:	CMA 10425

To appear in: Comput. Methods Appl. Mech. Engrg.

Received date:7 October 2013Revised date:12 October 2014Accepted date:19 October 2014



Please cite this article as: M.M. Hassani, F.K. Wittel, S. Hering, H.J. Herrmann, Rheological model for wood, *Comput. Methods Appl. Mech. Engrg.* (2014), http://dx.doi.org/10.1016/j.cma.2014.10.031

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights (for review)

Highlights

- A comprehensive rheological model for wood is proposed.
- All material input parameters are defined as function of the moisture level.
- The influences of instantaneous and time-dependent responses are considered.
- To characterize the plastic deformation a multi surface plasticity model is employed.
- The developed material model is generalized to analyze multi-species structures.

Download English Version:

https://daneshyari.com/en/article/6917263

Download Persian Version:

https://daneshyari.com/article/6917263

Daneshyari.com