

Research Article:

**EVALUAREA TENACITĂȚII LA RUPERE
INTERLAMINARĂ ÎN MODUL I LA
ELEMENTE STRATIFICATE DIN LEMN –
O ABORDARE EXPERIMENTALĂ**

**ASSESSING THE MODE I
INTERLAMINAR FRACTURE
TOUGHNESS OF WOOD LAMINATED
SPECIMENS – AN EXPERIMENTAL
APPROACH**

Marius Nicolae BABA

Șef. lucr. dr. ing. – Universitatea Transilvania din Brașov – Facultatea de Inginerie Mecanică
Adresa/Address: B-dul Eroilor nr. 29, 50036 Brașov, România
E-mail: mariusbaba@unitbv.ro

BIBLIOGRAFIE / REFERENCES

- ANDERSONS, J. KÖNIG, M. (2004). Dependence of fracture toughness of composite laminates on interface ply orientations and delamination growth direction. *Composites Science and Technology*, 64: 2139-52.
- HODGKINSON, J.M. (2000). *Mechanical Testing of Advanced Fibre Composites*. Woodhead Publishing Cambridge (UK).
- JENNINGS, JESSICA, D. (2003). Investigating the surface energy and bond performance and compression densified wood. Theses submitted to the Faculty of Virginia Polytechnic Institute and State University in partial fulfillment of the requirements for the degree of Master of Science.
- PEREIRA, A.B., DE MORAIS, A.B. (2006). Mixed mode I-II interlaminar fracture of glass/epoxy multidirectional laminates – Part 2: Experiments. *Composites Science and Technology*, 66: 1896-1902.
- RIVER, B.H. (1994). Fracture of Adhesive-Bonded Wood Joints. Pizzi, A.; Mittal, K.L., eds. *Handbook of adhesive technology*. New York: Marcel Dekker, Inc.; Chapter 9.
- SCOVILLE, CHRISTOPHER, R. (2001). Characterizing the Durability of PF and pMDI Adhesive Wood Composites Through Fracture Testing. Thesis Submitted to the Faculty of Virginia Polytechnic Institute and State University in Partial Fulfillment of the Requirements for the Degree of *Master of Science*, 15 October, Department of Wood Science and Forest Products, Blacksburg, Virginia.
- TURON, T.A. (2007). Simulation of delamination in composites under quasi – static and fatigue loading using cohesive zone models. Universitat de Girona, ISBN: 978-84-690-4372-1.