MODELING OF CRACK GROWTH IN ELASTIC-PLASTIC MATERIALS

M.H. ŢIEREAN[1]   L.S. BALTEŞ[1]   A. SANTANA LÓPEZ[2]

Abstract: *The paper presents the modeling and simulation of crack growth in three points bend specimen realized in elastic-plastic materials. After the exposition of the theoretical aspects, an application is presented, solved in two ways, which shows the feasibility of the method. For solving the problem the finite element analysis was used.*

Key words: *fracture mechanics, crack growth, FEA.*

[1] Dept. of Materials Engineering and Welding, *Transilvania* University of Braşov.
[2] Dept. of Process Engineering, University of Las Palmas, Grand Canary.