

DYNAMIC ANALYSIS AND STRUCTURAL EVALUATION OF GÓIS FOOTBRIDGE

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ABSTRACT

The results of a campaign of dynamic tests performed in a timber footbridge for evaluating its structural performance is presented in this paper. First of all, the modal parameters of the footbridge were determined through ambient vibration tests. In a second step, the scaling factors for mode shapes were calculated using the mass change method. Finally, the vibration level of the footbridge under pedestrian excitation was evaluated.