

## A CONTROL PLATFORM BASED ON DYNAMIC MODELING OF STRUCTURES

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### **ABSTRACT**

*In this work was developed a controller, using two experimental groups. The tests aimed at simulating a degree of freedom of a structure, allowing introduce inertial effects of changes over a trajectory and then assess the performance of a given technique under the control system disturbances. It was possible to analyze the disturbance of the system and check the behavior of the driver in front of these disturbances. As well as the development of programs, can implement equations, and incorporate them into the mesh of control, using with the supervisory and control systems, making possible the systematic experimental procedures and thus assess the new structure of the control proposed. The results of this study provided the implementation of a control system based on the didactic dynamic modeling of structures, which can be used in other applications, such as the implementation of the controller in flexible and variable dynamic structures.*