



Análisis de impacto de un robot de combate por el método de elemento finitos [

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text (article)

Analítica

This article deals with the application of the Finite Element Method (FEM) within the study of the dynamic effects developed by the impact on a combat robot. The project is divided into two parts: the mechanical design carried out in SolidWorks and the frontal and lateral impact analysis carried out in ANSYS. In mechanical design this is where the parts to be used are calculated, such as the thickness and material of the plate. The strength of these designs is based on their mechanics, it is shown that, with a good structure, bearings and fasteners, you can have a good competition machine. After this stage, the experimental phase was carried out, making different impact analyses, frontal and lateral, giving good results in most cases

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