

MODAL ANALYZE OF A REAR AXLE ASSEMBLY USING FEM (FINITE ELEMENTS METHOD)

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Abstract

The paper presents the first part of a dynamic study for a car's rear axle assembly, respective a modal analyze. The axle has a twistable beam, and the assembly has been studied considering all its parts, even the elastic elements that attach it on the body. The FEM was used as study method, and the calculation software was MSC/NASTRAN.

Keywords

Rear axle, modal analyze, FEM (Finite Elements Method).