

DESIGN, ANALYSIS, TESTING OF MULTI LEAF SPRING FOR LIGHT COMMERCIAL VEHICLE

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Abstract

Leaf springs are one of the oldest suspension components they are still frequently used, especially in commercial vehicles. The purpose of this paper is to study the design, analysis, Experimentation of modified leaf spring of light commercial vehicle and to predict the fatigue life of semi-elliptical steel leaf spring. The non-linear static analysis of 2D model of the leaf spring is performed using NASTRAN solver and compared with analytical, experimental results. The fatigue life is carried out by MS fatigue. The pre processing of the modified model is done by using HYPERMESH software.

Keywords : Multi Leaf Spring, FEA, Fatigue Life.