

MODAL ANALYSIS OF AUTOMOBILE LEAF SPRINGS

KVS SESHENDRA KUMAR

Assistant Professor, Department of Industrial Engineering, GIT, GITAM University, Visakhapatnam, India

ABSTRACT

The automobile industry has shown increased interest in the replacement of steel spring with fiber glass composite leaf spring due to high strength to weight ratio. This work deals with the replacement of conventional steel leaf spring with a Mono Composite leaf spring using E-Glass/Epoxy. The design parameters were selected and analyzed with the objective of minimizing weight of the composite leaf spring as compared to the steel leaf spring.

KEYWORDS: Automobile Leaf Springs