Modeling and simulation of 2-wheeler alloy wheel

Abstract:

Alloy wheels are automobile wheels which are made from an alloy of aluminum or magnesium. Alloy wheels differ from steel wheels because Of their lighter weight, which improves the driving and handling of the motorcycle. The benefit of reduced unstrung weight is more precise handling and reduction in fuel consumption. Alloy is an excellent conductor of heat, improving heat dissipation from the Brakes, reducing the risk of brake failure.

in this project we design the model of alloy wheel and perform the analysis with different low weight materials and determine the stress , strain and deformation results by using solid works premium 2014.