**Modeling And Analysis Of Master Cylinder In Hydraulic Braking System**

**Abstract:**

Braking system is a means of converting momentum into heat energy by creating friction in the wheel brakes. The braking syste m which works with the help of hydraulic principles is known as hydraulic braking systems. The braking system used most frequently operates hydraulically, by pressure applied through a liquid. In this present work, minimize the weight to increase mileage in case of general road cars and to increase the speed of the vehicle in case of sports cars. Polymers have good elastic properties and are strong enough to use for master cylinder. The use of polymers in the manufacturing of master cylinder reduces the weight of the master cylinder. The master cylinder is modelled in catia v5 and the analysis is carried using ANSYS work bench.

Keywords: catia v5, polymers, ANSYS