Design and analysis of ball bearing

A bearing is a [machine element](http://en.wikipedia.org/wiki/Machine_element) that constrains relative motion to only the desired motion, and reduces friction between. It provides free rotational movement around a fixed axis which increases the rotational speed.

In this project we generate the model of ball bearing and study the behavior of static loads and determination of stress, deformation, strain results at different loads and materials. we design the model and perform the analysis in solid works premium 2014.