Modelling of Intermediate Steering Shaft of Fiesta Car and Its Static Structural Analysis

Abstract

The intermediate steering shaft is very important part in the steering system. The steering system is a group of parts that transmit the movement of the steering wheel to the front and sometimes the rear wheels. The steering system of car is not only important for safety reasons but also to enhance the comfort of car’s ride. The most conventional steering arrangement is to turn the front wheels using a hand operated steering wheel which is positioned in front of the driver via the steering column which may contain universal joints and
may also be part of the collapsible steering column design to allow it to deviate somewhat from a straight line. In this project modelling of steering shaft is done by using Creo software and for the analysis ansys software is used. From the literature survey it is found that tremendous work is done on the steering system and its optimization but rarely work is done on the intermediate steering shaft or work on it is worth pursuing. So, I have taken this intermediate steering shaft as my M. Tech Project for the development in design or its optimization.

References

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