

## **MODELING FOR KINEMATIC ANALYSIS OF FRONT SUSPENSION OF AN AUTOMOBILE**

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### **Abstract**

An original thought is given to completely kinematic analysis of front suspension of a four wheel vehicle automobile. This is obviously essential for any automobile for representing a major challenge in terms of servicing and maintenance. Novel idea is come out with a new approach for kinematic analysis of front suspension of an automobile using most popular tool in the field of robotics Denavit Hertenberg principle.

Wheel and bushes mounted on various joints are very sensitive to minor change in camber angle, caster angle, kingpin angle and toe angle. Paper presents a new method which is based on robotics technique for kinematic analysis and description of steering geometry modeling.

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**Keywords :** Camber angle, Caster angle, Kingpin angle, Steering geometry, Front suspension