

**ELITE COMPUTERIZED RATING SCHEME TO EVALUATE SIMPLE JOINTED  
PLANNER KINEMATIC CHAINS: IMPLEMENTED ON KINEMATIC CONFIGURATION  
OF VARIOUS INDEPENDENT SUSPENSION SYSTEM**

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**ABSTRACT**

The meticulous knowledge of the kinematic chain is essential for the designer in mechanical engineering and importunate effort has made to know about kinematic chain as much as possible. The existing literature shows that methods have been reported by C.N. Rao and A.C.Rao to predict the performance and rate the kinematic chains and mechanism among several configurations. In the present work a methodology is used which is based on the influence of type of links, type of joints and type of loop present in a kinematic chain to predict the performance of kinematic chains without carrying out the dimensional synthesis. The work already reported has been used to explore the performance rating of catalogue of 8 – Link, 1 –degree of freedom simple jointed planar kinematic chain. For the whispered analysis required programme is developed in C language. Developed system is implemented to detect rating of independent suspension system mechanism and results shows that current methodology is superior.

**KEYWORDS:** Kinematic Chain, Degree of Freedom