

## Analysis of Anti-Roll bar to Optimize the Stiffness

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**Abstract**-The objective of this paper is to analyze stiffness of anti-roll bar by varying the various geometric condition of the anti-roll bar. The stiffness of anti-roll bar can be calculated by using the Finite Element Software ANSYS. Analysis of anti-roll bar is especially important as cases are reported about the fracture of anti-roll bar after a 1, 00,000 km of travel. Stiffness per weight is the basis for the comparison of different types of anti-roll bar. Improving the stiffness of bar with small increase in weight will result in improving the roll stability of the vehicle. The anti-roll bar having more ratio of stiffness per weight can be used in the vehicle.

**Keywords**-Stiffness, FEA, anti-roll bar, stability, roll angle

### I. INTRODUCTION

Anti-roll bar is one of the inventions in the automobile industry which is also called as sway bar or stabilizer bar. Vehicle anti-roll bar is part of an automobile suspension system. Structure of such anti-roll bar are U shaped bar which connect two wheel that is left and right wheel and bar is fixed to the chassis of the vehicle by bush. Anti-roll bar may be solid or hollow tube. The main function of anti-roll bar is reducing body roll motion when the vehicle is at the cornering condition. An anti-roll bar improves the handling of a vehicle by increasing stability during cornering. Body roll condition occurs due to the load transfer and changes takes place in the camber of vehicle which directly affect the steering behavior of the vehicle and vehicle loses its stability therefore to eliminate the roll effect in case of under steer and over steer anti roll bar is used. Anti-roll bar gives comfort in driving condition and safety in case of such roll situation. One more benefit of anti-roll bar is that, it improves traction by limiting the camber angle change caused by body roll.

The Anti-roll bar provides the advantage that it allows to use the less stiff spring therefore it can absorb uneven road shocks giving ultimate comfort to passengers [1]. The antiroll bars can be used in front suspension, rear suspension or in both suspensions irrespective of type of suspension. Anti-roll bars may have irregular shapes to get around chassis components, or may be much simpler depending on the car. When the anti-roll bar is used in the vehicle then it reduces the body roll by 48.4% which gives the stability to the vehicle. By the use of finite element method stiffness of the anti-roll bar is found and it is shown that lowest stiffness to the weight ratio is achieved by using the shortest length of side length of bar [2]. A typical anti-roll bar is shown in fig 1.



Fig1: Typical Anti-roll bar with bush

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