Abstract

Anti-lock braking system (ABS) is an automobile safety system for vehicles which will allow controlling wheels of vehicle and providing safety contact on road surface according to driver braking input, avoiding uncontrolled skidding and also preventing the wheels from locking up. The main task of ABS is to press and release the brakes almost 15 times a second, so process of stopping the vehicle in a shorter time and distance. The ABS controller basically prevents the braking wheel from skidding on the road surface. Because of all these features, ABS has greatly improved the performance of automobile security. Currently the test stand is used to take measurements and analysis of ABS. The ABS system performs two main functions, automatic measurement and testing of high quality ABS. In this paper, the test stand can create a virtual environment so that various testing conditions can be applied for ABS system. The test stand can record all the parameters and compare with stored values, and simultaneously apply for Lab View software. This Software is used to calculate varies parameters of the test stand and also generate graph which shows running status test stand.
References


Index Terms

Computer Science  Security

Keywords

ABS Test stand, Data acquisition, Virtual instrument.