

Design and simulation of ABS braking system on Vios 2010 car using Inventor software

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Abstract: This topic focuses on the design and simulation of an Anti-lock Braking System (ABS) for the 2010 Vios car using Inventor engineering software. The context of the topic is determined based on the necessity of ABS to ensure effective traffic safety. The research objective aims to develop an ABS with high accuracy, while optimizing the design and testing process through a virtual model. The research method includes both theoretical approaches to the operating mechanism of ABS and its application implementation in a digital environment to ensure maximum performance. The expected results will contribute to improving the safety features of the 2010 Vios car.

Keywords: Anti-lock Braking System (ABS), Vios 2010 car, Inventor software, technical simulation, traffic safety