Design and simulation of the braking system of a Ford Everest vehicle using Inventor software

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Abstract: This topic aims to research the design and simulation of the Ford Everest's braking system using Inventor software. The context of the topic is determined based on the necessity to improve the safety performance and reliability of braking systems in motor vehicles. The objective is to build a numerical model to analyze performance and optimize the braking system. The research method combines theory with practice through the deployment of Inventor software applications. The expected result is the enhancement of design quality, testability, and flexibility in adjusting the braking system.

Keywords: Brake system, Ford Everest vehicle, Inventor software, technical simulation, optimization