

Design and simulation of a car suspension system using SolidWorks software

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Abstract: In the modern context, improving the performance and quality of automotive suspension systems is a crucial requirement to provide a safe and comfortable driving experience. This topic focuses on the design and simulation of a suspension system for passenger cars using SolidWorks. The main objective of the research is to build a complete technical model to analyze the mechanical behavior of the system. The applied method combines theory with experimentation to ensure high applicability in the design and improvement of suspension systems. Thereby, the topic not only contributes to the scientific understanding of suspension systems but also directly supports the design of modern technical products.

Keywords: Automotive suspension system, SolidWorks, Engineering simulation, Industrial design