

Calculation, design and simulation of automotive gearbox on Inventor software

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Abstract: This topic focuses on calculating, designing, and simulating an automotive gearbox using Inventor software. The objective is to develop a comprehensive solution for the gearbox manufacturing process through a combination of theoretical research and experimentation. Accordingly, the topic aims to contribute to optimizing gearbox performance and reducing production costs. The expected results will identify the most suitable design options that meet technical requirements and satisfy the demands of the modern automotive market.

Keywords: Automotive gearbox, Inventor software, Mechanical design, Dynamic simulation, Performance optimization