Calculation, design, and simulation of a gasoline engine using Inventor software.

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Abstract: In the context of increasing demands for performance and energy efficiency in the automotive industry, this topic focuses on the calculation, design, and simulation of a gasoline engine using Inventor software. The objective of the study is to build an accurate modeling system to optimize engine operating efficiency. The methodology combines theory from mechanical problems related to engines with the implementation of applications in the software. The expected results will significantly contribute to enhancing the understanding of gasoline engine design, while providing a powerful virtual testing tool for the product development stage.

Keywords: gasoline engine, Inventor software, dynamic simulation