

Revolutionizing Automotive Engineering: Unleashing the Power of Technology

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Abstract

Advancements in technology have brought about a signif cant transformation in the feld of automobile engineering. This article delves into the impact of technology on automobile engineering, highlighting the materials and methods that have revolutionized the industry. Lightweight materials, such as carbon fber composites and high-strength steel alloys, have not only improved fuel ef ciency but also enhanced performance. Moreover, advanced powertrain technologies, including hybrid and electric systems, have played a crucial role in reducing emissions and providing sustainable alternatives. Furthermore, the adoption of advanced manufacturing techniques, such as 3D printing, has streamlined production processes, while the integration of sensors and control systems has enabled the implementation of advanced safety features and autonomous driving capabilities. Additionally, connectivity solutions have elevated the driving experience through telematics and smartphone integration. Through the strategic utilization of technology, automobile engineering has achieved remarkable progress in creating vehicles that are efcient, environmentally friendly, and safer for drivers and passengers alike.

Keywords:

Introduction

Electric vehicles (EVs)

Autonomous driving

Advanced safety systems

Connectivity and infotainment

(2)

Sustainable manufacturing

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Materials and Methods

Autonomous driving