

Building and simulating the dynamics of a dual-clutch system in a transmission based on the Ford Focus transmission.

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Abstract: This thesis aims to study and build a dynamic model for the dual-clutch system in automatic transmissions through analyzing the transmission structure of the Ford Focus. By combining theoretical and experimental methods, the research will provide a detailed dynamic database to improve the operational performance of similar vehicle models. The expected results will contribute significantly to the understanding of drivetrain systems and modern automation technology.

Keywords: Dual clutch transmission, dynamic simulation, Ford Focus, automatic transmission, performance improvement