

Design and manufacture of a T-D drive system for controlling the speed of a DC motor.

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Abstract: In the context of increasing demands for performance and energy in power systems, this topic focuses on researching and designing a T-D drive system for controlling the speed of a DC motor. The objective is to build and test the system to optimize operational efficiency and minimize power consumption. The research methodology includes both theoretical and experimental approaches, from model analysis to implementation on a physical platform. The expected outcome is to provide a useful solution for industrial and domestic applications, while contributing to the field of electric drives.

Keywords: T-D drive system, DC motor, Speed control, Operating efficiency, Experimental testing