ABSTRACT

Automotive technology advances so rapidly occur. At present the majority of vehicle manufacturers to use and develop the CVT. CVT (Continuously Variable Transmission) is a transmission system that utilizes changes in the diameter of driving pulley with the driven pulley in the process of transfer of power from the engine to the wheels. ECVT (Electrical Continuously Variable Transmission) is the result of the application of digital technology in which the method of changing the pulley diameter is controlled by the Fork Push Belt with a combination of lead screw driven by an electric DC motor.

In this final task will be simulating the performance of DC motor control in ECVT with LabVIEW software. At the time of the simulation assumed ideal conditions so that the obtained data as a reference or parameters for implementation. When the primary pulley rotation of 550 rpm idle Xp gained by 12.19 by 17.28 mm and Xs. While at 2300 rpm maximum spin, for Xp and Xs for 0mm 0mm. For maximum rotation position of the primary drive pulley and secondary pulley is open.

Keywords: ECVT, motor DC, Software Labview, Simulation
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