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DESIGN ESTIMATION OF BRUSHLESS SEDC MOTOR FOR SPEED CONTROL BY USING VARIOUS CONTROLLERS

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ABSTRACT

The BLSEDC motors have many applications due to their use in modern life because of the simplest construction, simple maintenance, low price and reliability. The importance of brushless SEDC electric motors in the continuous growing automotive industry. The working force behind market growth is 'motorists' insatiable demand for safety, comfort, economy, a clean environment and overall quality of driving. This paper presents design estimation of brushless SEDC motor by proportional as well as fuzzy rule using MATLab/Simulink. This Fuzzy rule method is feasible due to the unique and simplified structure of this motor.

KEYWORDS: Brushless SEDC Motor, PID Controller, Fuzzy Controller