

Control of Direct Current Machine by the Change of Resistance in Armature Circuit

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ABSTRACT

The control of motor rotation speed by the change of resistor resistance value in armature circuit is called 'resistor control'. For the regulation of resistance value R_0 , included in armature winding circuit, we can use various technical solutions. The most used solution is the discrete variation of armature added resistance value by shunting its parts with contactors contacts.

Nowadays, the change of resistor resistance in armature circuit can be realized by shunting with a given porosity γ of resistor R_0 through electronic keys. In this paper, we study the design of control system represented on figure 1.

Keywords: Control of DC machine, change of resistance, armature circuit

1. INTRODUCTION

DC motors consist of rotor-mounted windings (armature) and stationary windings (field poles). In all DC motors, except permanent magnet brushless motors, current must be conducted to the armature windings by passing current through carbon brushes that slide over a set of copper surfaces called a commutator, which is mounted on the rotor.^{[1][2]}

The commutator bars are soldered to armature coils. The brush/commutator combination makes a sliding switch that energizes particular portions of the armature, based on the position of the rotor. This process creates north and south magnetic poles on the rotor that are attracted to or repelled by south and north poles on the stator, magnetic attraction and repulsion that causes the rotor to rotate.^{[3][4]}

The dynamic behavior of DC machine is mainly determined by the type of the connection between the excitation winding and the armature winding including the commutation and compensation winding.

The greatest advantage of DC motors may be speed control. Since speed is directly proportional to armature voltage and inversely proportional to the magnetic flux produced by the poles, adjusting the armature voltage or the field current will change the rotor speed.^[5]

Speed control means change of a speed to a value required for performing the specific work process. This adjustment should not be taken to include the natural change in speed which occurs due to the change in the load on the drive shaft. The electrical speed control has many economical as well as engineering advantages over mechanical speed control. There are so many methods for controlling the speed of a DC shunt motor but field rheostat control method is most reliable, economic and independent of load on the motor. This method is only applicable when we want speed which is higher than the normal speed of the motor. In this method, an increase in controlling resistance reduces the field current with a consequent reduction in flux and an increase in speed. But if we want

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