

REGULATOR AND CHOPPER FED DC MOTOR

KARTHIK BALASUBRAMANIAN, AROKKIA JERALD PRAVEEN & KIRAN R

Student, School of Electrical Engineering, VIT University, Chennai, Tamil Nadu, India

ABSTRACT

This paper introduces the running of DC motor with AC power supply. The Input power supply is stepped down using a 12V step down transformer and fed to the semi converter. The AC supply is converted into dc by using a rectifier with thyristors and diodes. The Rectified supply is fed into the boost regulator for the amplification process and this amplified DC output is fed for the DC motor. The thyristor and Mosfet are triggered by gate pulses produced by multivibrator. The Semiconverter is turned on by the gate pulses provided by the Astablemultivibrator having transistors while the boost converter is turned on by gate pulses provided by Astablemultivibrator having 555 timer

KEYWORDS: Regulator, Chopper, Thyristor, Astablemultivibrator