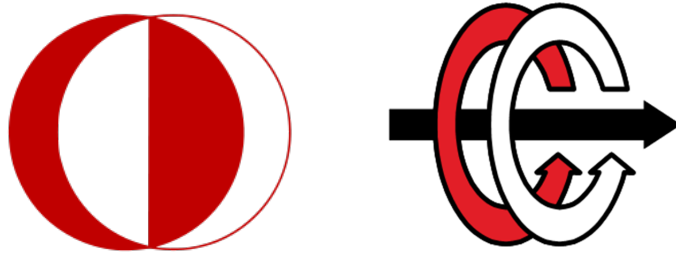


# **EE462 Spring 2016**

## **Project 0**

DC Motor Drive and Analysis

March 2017



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Electrical and Electronics Engineering Department

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## 1 Brief Explanation

These report will try to explain and give information about DC Motor drive and analysis . The wanted specific details are,

- A short info about the motor (voltage, current, power ratings etc.)
- Short info about the power source and control system
- Graphs showing acceleration curve from stationary to rated speed
- Start-up current graphs
- Produced torque during startup

## 2 Results

In that project,I used Chopper-Fed DC Motor Drive Example.

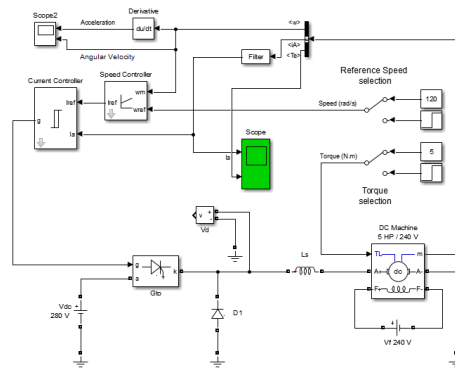


Figure 1: Simulink Diagram of Chopper-Fed DC Motor Drive

## DC Motor Properties

TODO

-Motor Explanation?

-Power Source and Control Explanation

-Graphs [OK]

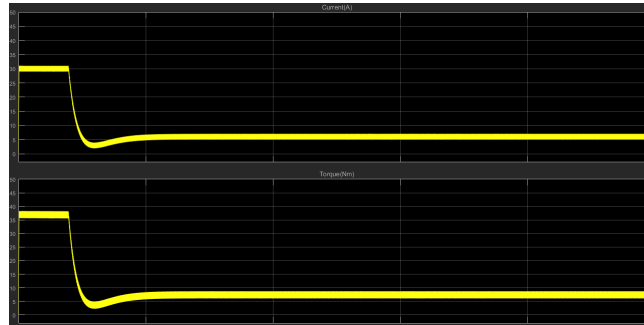


Figure 2: Torque and Current Graphs of DC Motor Drive



Figure 3: Acceleration and Velocity Graphs of DC Motor Drive

## References

- [1] H. Le-Huy *Universite Laval, Quebec*. SimScape Power Systems Examples, MathWorks