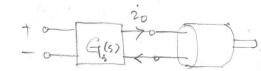
Objectives

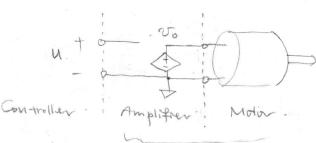
- Understand the dynamics of current-controlled de motors.
- · Torque response & output impedance

Gillin = TO EALVJ

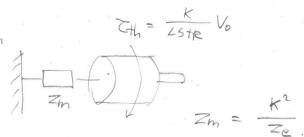
· Troms anductomice ounplifeer design



Review



Assuming thigh-bandnidth

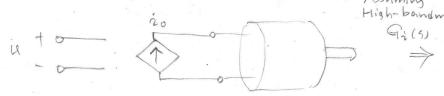


Actuartor.

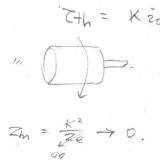
1 slow torque nesp. " We = }

· (3) Actuator autiput Impedance : Zm = k2 Zo

· What if we drive the motor with a current source? Gi (5) = TO [A/V]



Assuming High-bandmidth



Ton output impedance.

a) Closer to an Ideal torque (or force) source

e.g. Zm > 0' is important for vibration isolation