

■ OP AMP

- Relation and equation
- Inverting
- Non-Inverting
- Integrator
- Differentiator
- Summer – Adder
- Example
 - Page 97 – page 99
- Report
 - Page 100
 - Make a simulation file for different applications of OP-AMP

Modeling in Electromechanical systems

■ DC Motor

- $T = K \cdot \phi \cdot I_a$
- ϕ is a function of I_f
- Field control – separate excited DC motor
 - Model
 - Equation
 - Block diagram
 - Transfer function
 - Comment on Model parameters
- Armature control – Armature terminal voltage control – VT control

■ Report:

- Simulate using Simulink
- Simulate using Toolbox
- Simulate using MATLAB