ME 4232: FLUID POWER CONTROLS LAB

Class #14
Guest Speaker: Mike Olson &
Course Review 1
Notes

• Internship Opening at MTS Systems

• Lab 22: Force Control Integrated Lab
  – Due at Final Exam
  – Grading emphasis on methodology and demonstrated understanding

• Last Class:
  – May 11: Course Review II

• Final Exam: May 16, 1:30 pm – 3:30 pm
  – Alternate Time: May 16, 11:30 am – 1:30 pm
Agenda

• Guest Speaker: Mike Olson – Eaton Corporation

• Course Review 1
  – Physical Laws
  – Fluid Properties
  – Hydraulic Components
  – Hydraulic Circuits & Power Calcs
  – Example

• Course Evaluation
Physical Laws
Hydraulic Components

- Needle Valve

- Pressure Compensated Flow Control (PCFC) Valve
Hydraulic Components

- Relief Valve
Hydraulic Components

• Pressure Reducing Valve

• Check Valve
Hydraulic Components

• Directional Control Valve

• Servo Valve
Hydraulic Components

- Pump / Motor
- Linear Actuator
- Rotary Actuator
Circuits