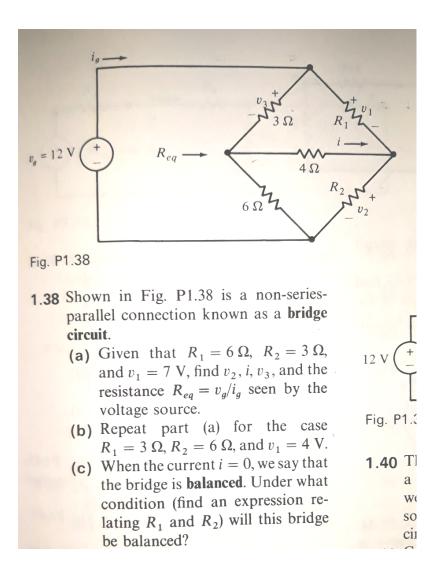
Mixed Electronics II

Tentative Plan:

Install Vivado from Xilinx. (Spartan)

- 3 Projects
- No lectures
- Keep lab books
- 1-2 pages weekly reports on progress

Project 1: Weigh scale using strain gauges Start with analysis of a bridge circuit



- a) Solve problem 1.38
- b) Test the circuit
- c) Use the circuit to measure a resistance
- d) How would you use strain gauge(s) in the circuit to Measure weights
- e) Use strain gauge(s) to build a scale
- f) If needed, use an amplifier (which type?) to get better measurements.
- g) Connect it to a computer and display the weight values.

How would you use strain gauge(s) to implement a scale

FPGAs. Install Vivado from Xilinx