Basic Elec. Engr. Lab ECS 204/210

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Office Hours:

BKD 3601-7

Tuesday 15:00-16:00

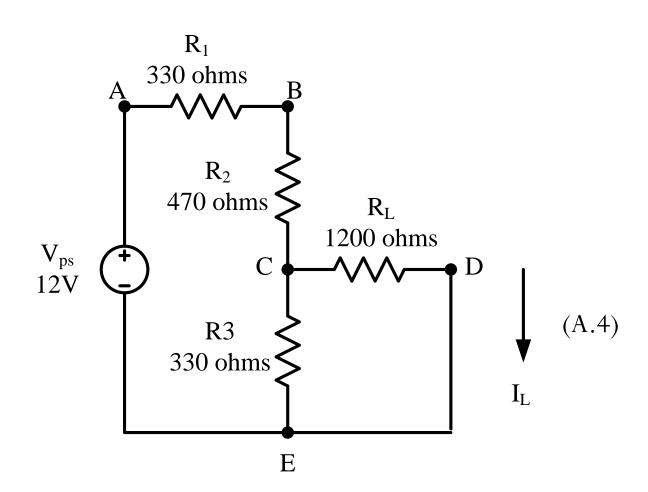
Friday 14:00-16:00

Lab 2

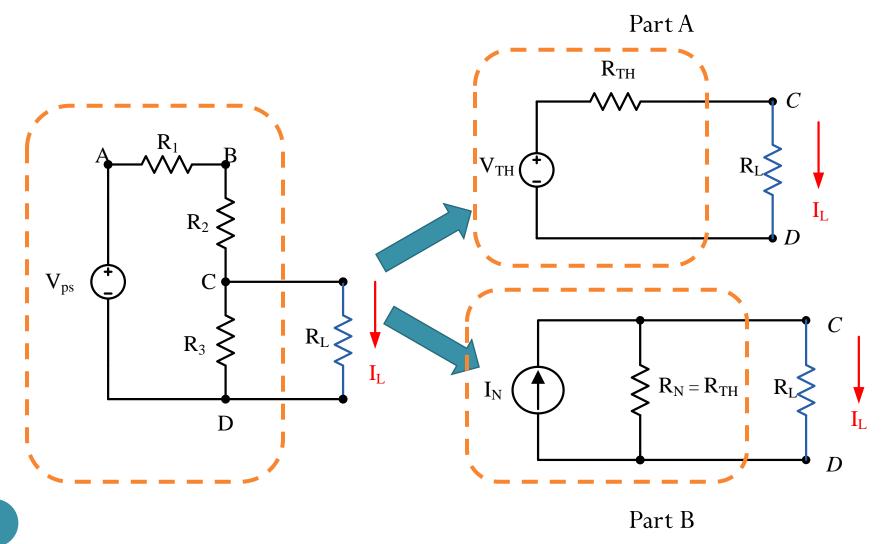
- Thevenin's and Norton's Theorem
- New toy: Potentiometer
- Building a "fake" current source

Thevenin's and Norton's Theorem

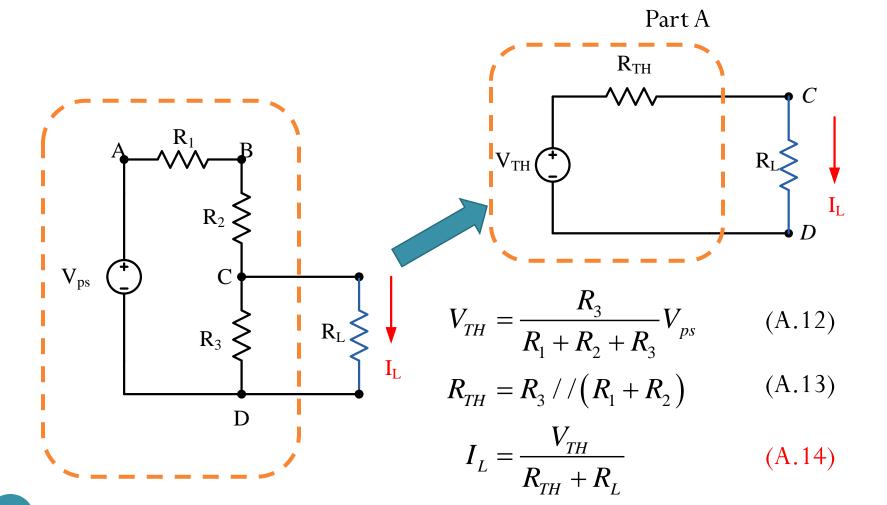
Lab 2: Circuit under consideration



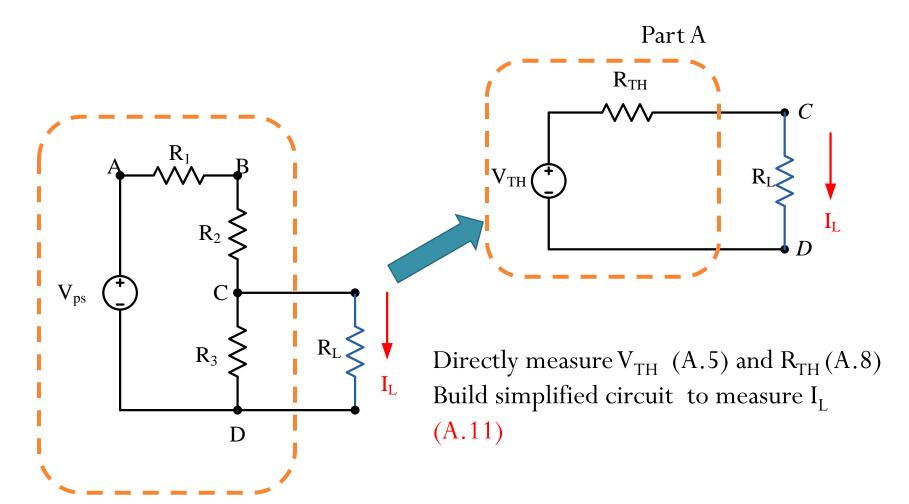
Outline of the lab



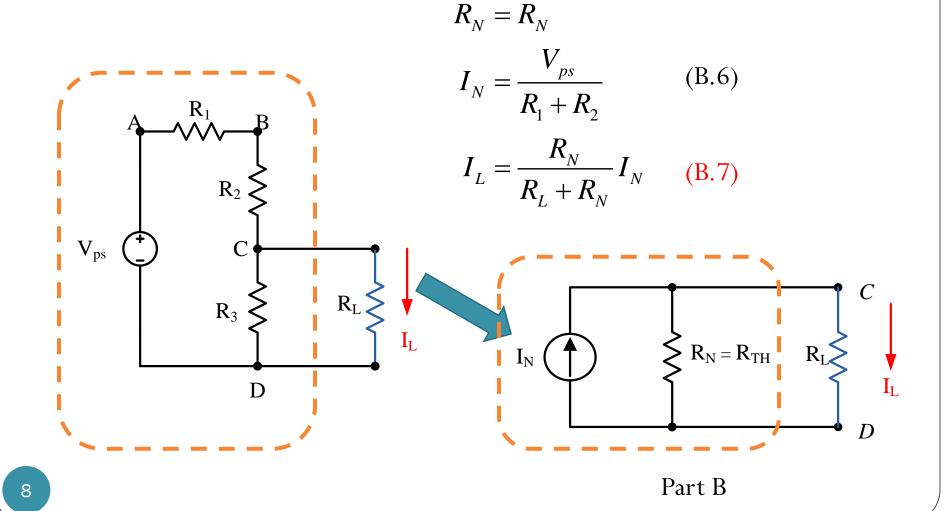
Part A: Thevenin Equivalent (1)



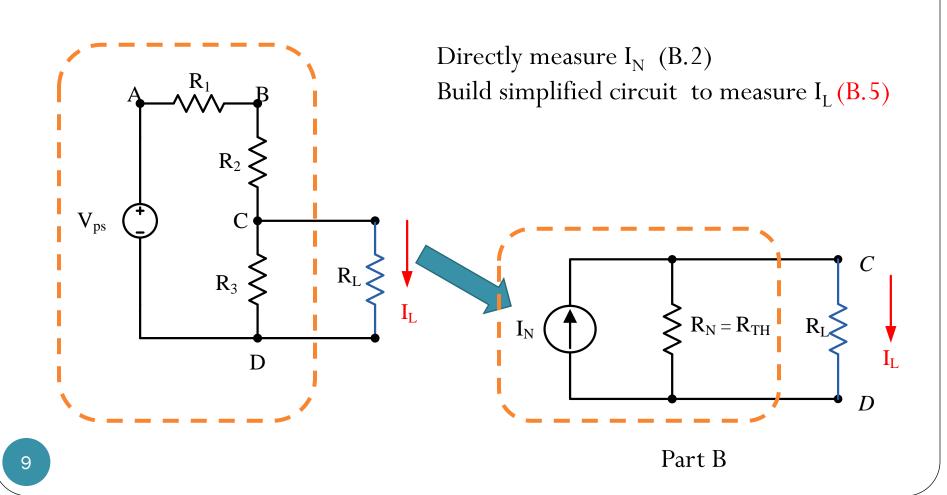
Part A: Thevenin Equivalent (2)



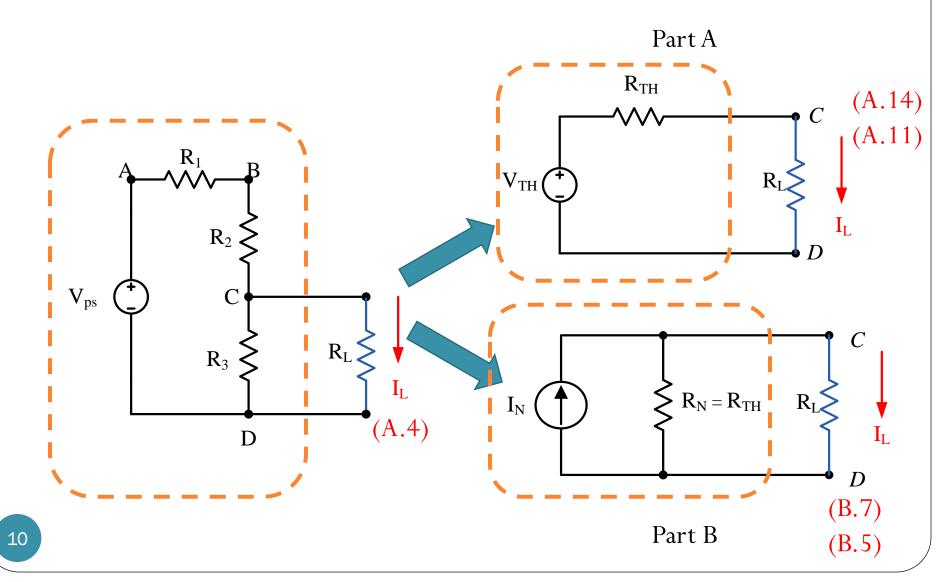
Part B: Norton Equivalent

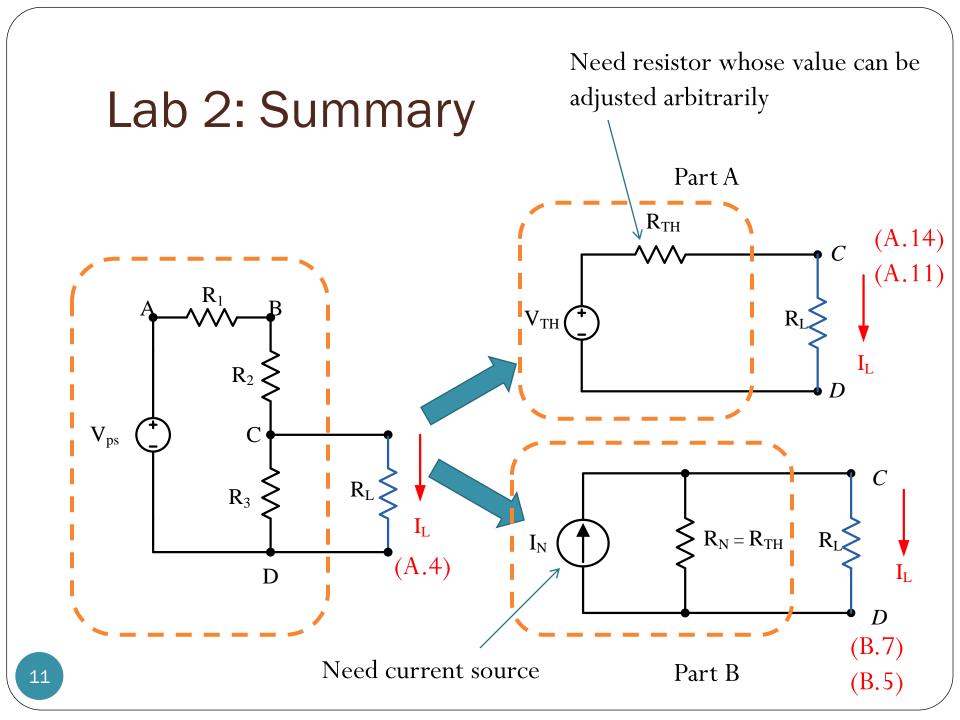


Part B: Norton Equivalent



Lab 2: Summary





Potentiometer (Pot)

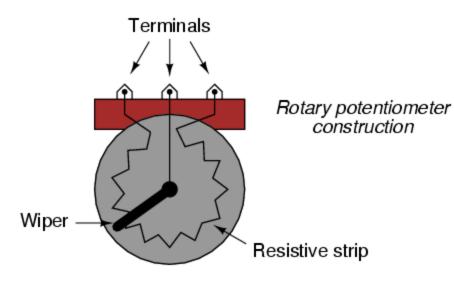




Pot as a variable resistor

- Manually adjustable resistor
- Three terminals
- The resistance between the middle terminal and either of the two sides depends on the position of the wiper.







Current source

- We do not have current source.
- We will modify voltage source (power supply) to give the specified amount of current.