# Basic Elec. Engr. Lab ECS 204

## Asst. Prof. Dr. Prapun Suksompong

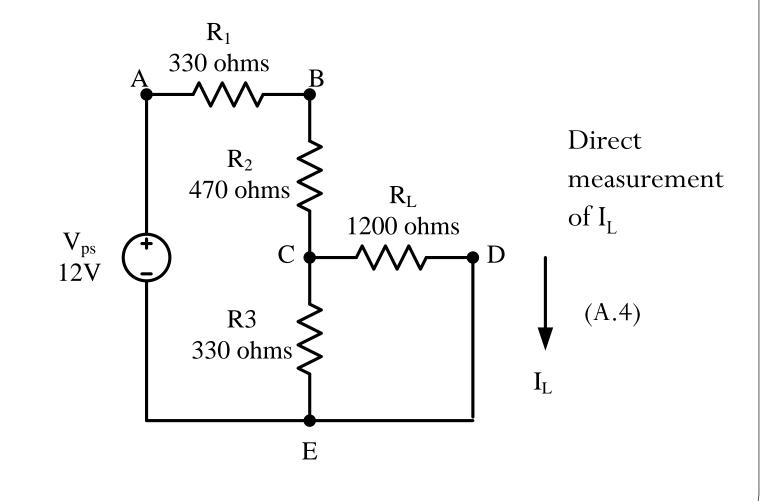
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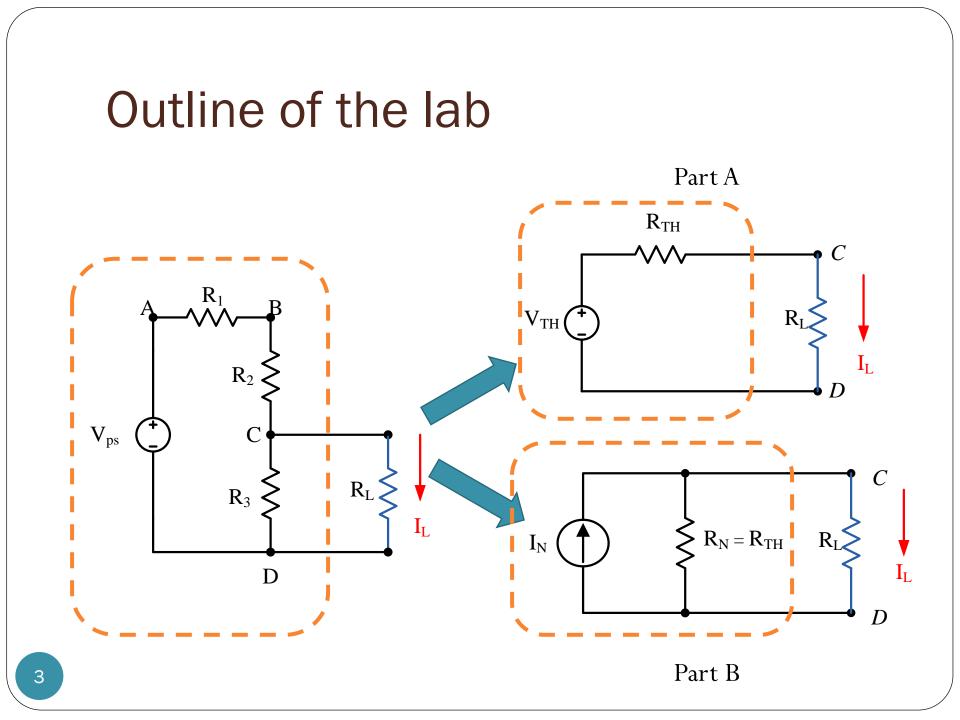
Lab 2

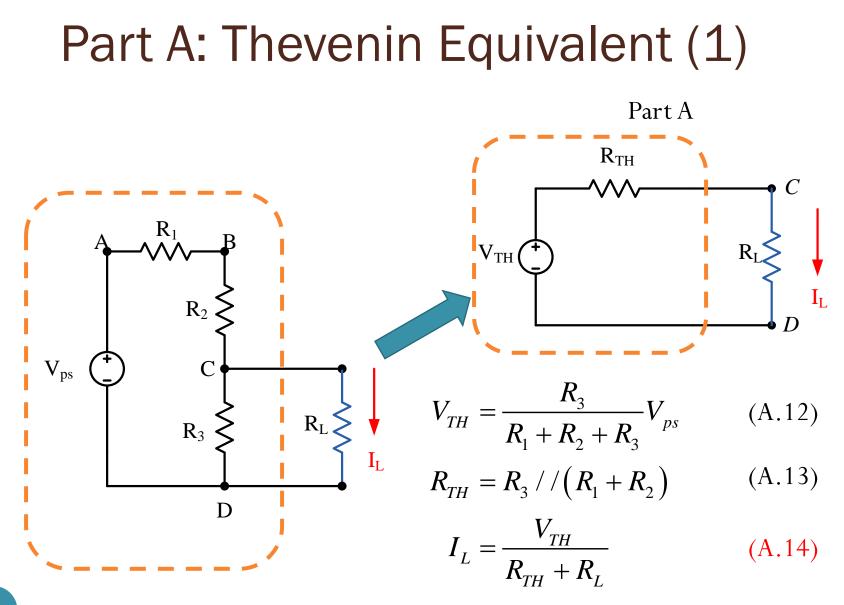


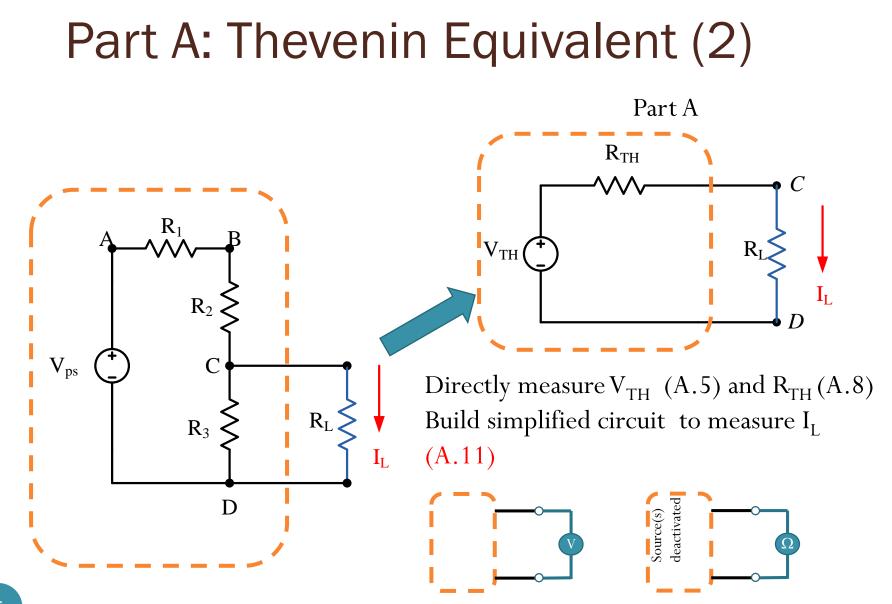
- Thevenin's and Norton's Theorems
- New toy: Potentiometer
  - Building a "fake" current source

### Lab 2: Circuit under consideration

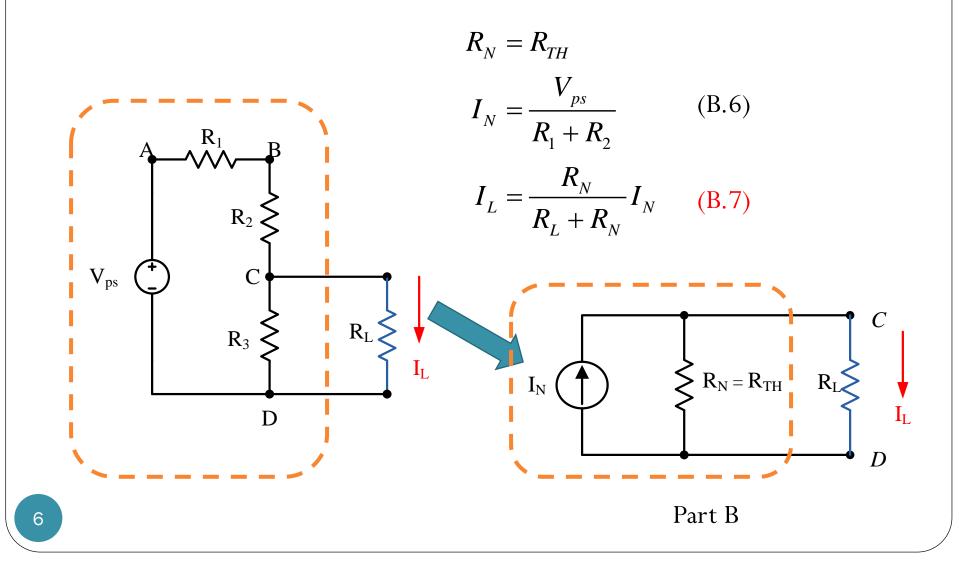


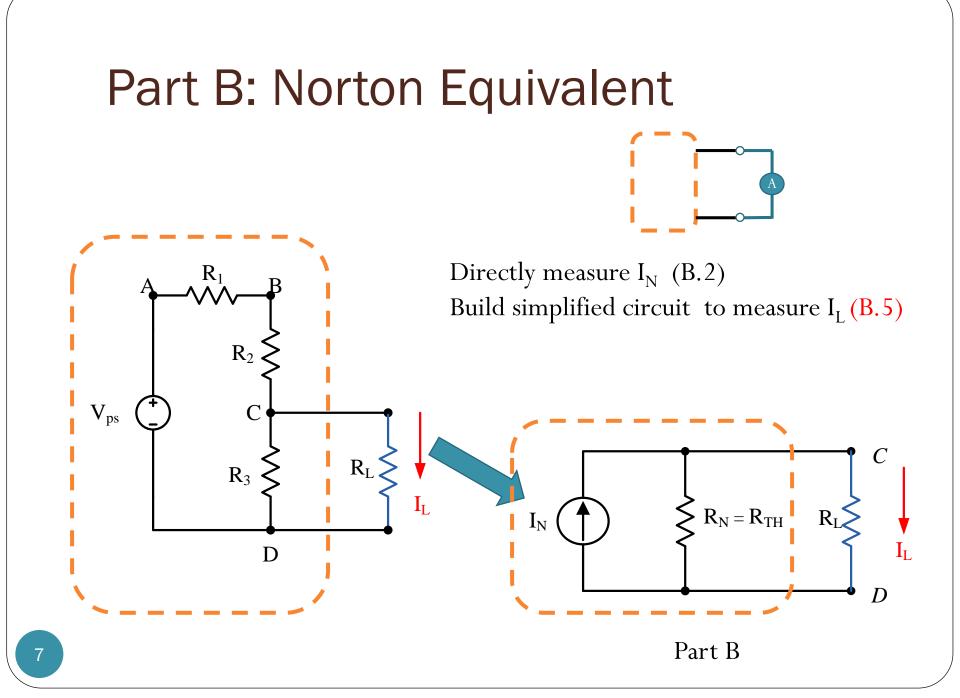


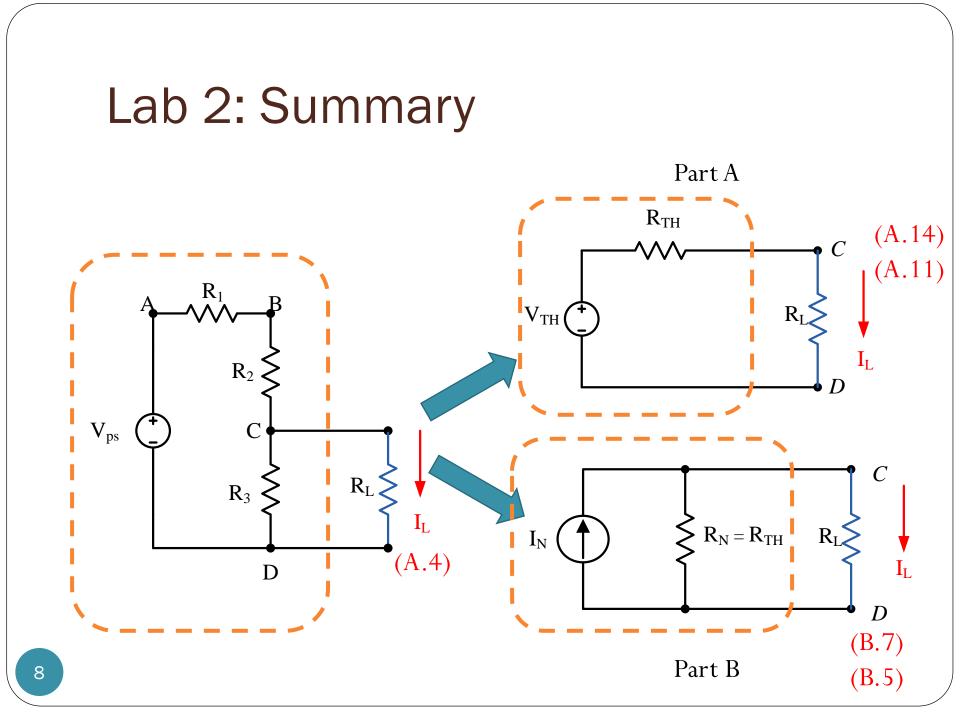


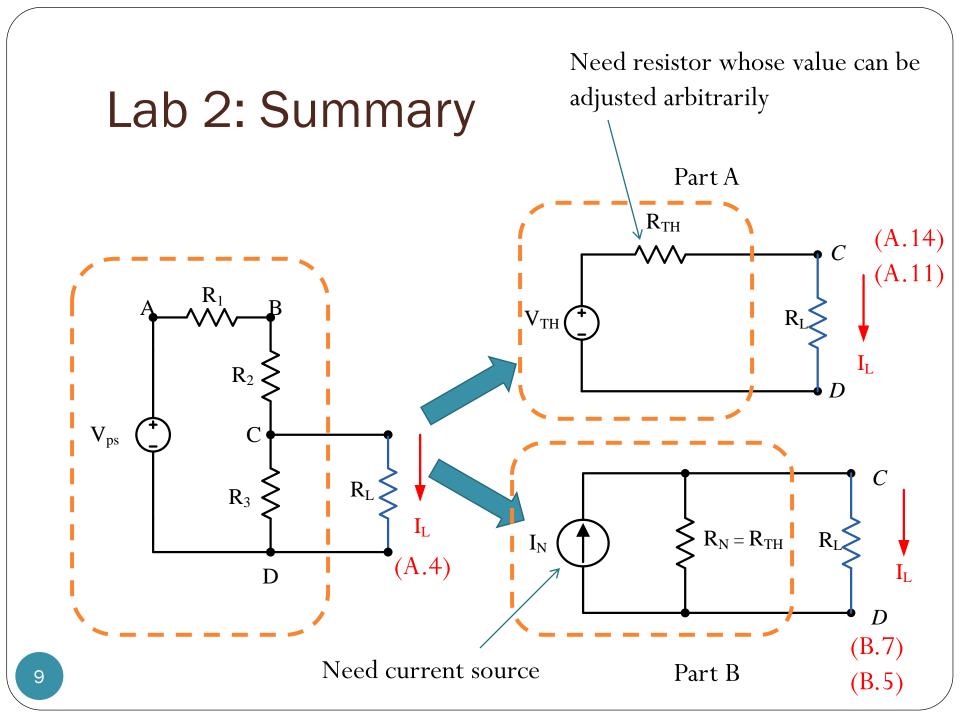


#### Part B: Norton Equivalent







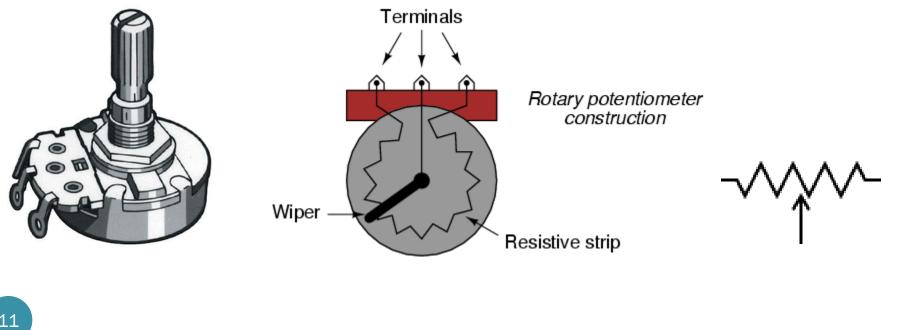


## Potentiometer (Pot)

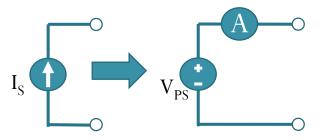


## Pot as a variable resistor

- 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.
  - Again, it is meaningless to connect an ammeter directly across the power supply. This will NOT give you the amount of current produced by the power supply.
- We use a voltage source (power supply) to give the specified amount of current.

