ECET 102/CPET 101

Lab 6
MULTISIM Exercises Lab

http://www.etcs.ipfw.edu/~lin

Lab Activities

1. Multisim Exercise 1, a simple DC circuit with E = V1 = 12 volts, R1 = 4 k Ohms, from page 128-130

2. Multisim Exercise 2, a DC circuit with three resistors in series, volt meters and amp meters, pages 174-175

3. Multisim circuit examples using Fig 5.96 on page 179

Lab Activities

- Start NI Multisim 11 Circuit Simulation and Design Program by
  - Start => National Instruments => Circuit Design Suite 11 => Multisim 11
- Follow the first Multisim example explained in Chapter 4, pages 128-130, to create your first Multisim simulation circuit
- Save your simulation as p128.

Lab Activities

- Start NI Multisim 11 Circuit Simulation and Design Program by
  - Start => National Instruments => Circuit Design Suite 11 => Multisim 11
- Follow the first Multisim example explained in Chapter 4, pages 128-130, to create your first Multisim simulation circuit
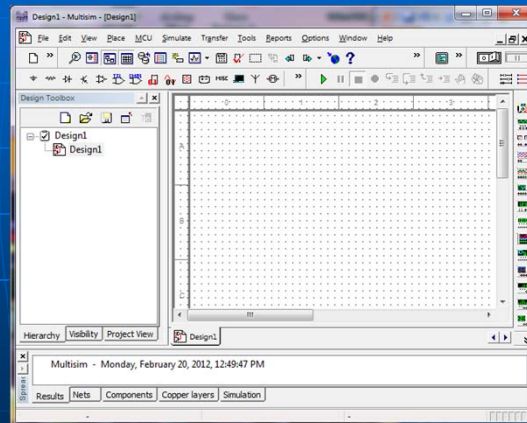
Lab Activities 6-1

- 1. Start your Multisim 11 as shown below

Lab Activities 6-1

- 2. Locate the 4 k ohm resistor, by clicking the resistor symbol located on the third row of the menu bar

- 3. Place it on the Multisim Design screen; right click the 4 k resistor, chose rotate 90 degree to change its orientation.
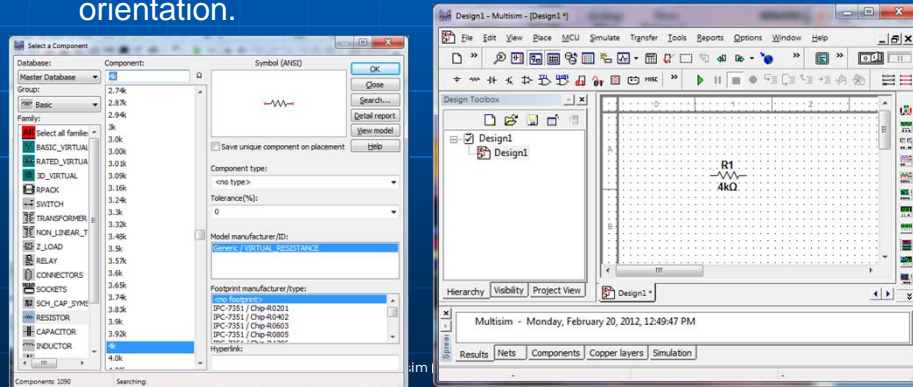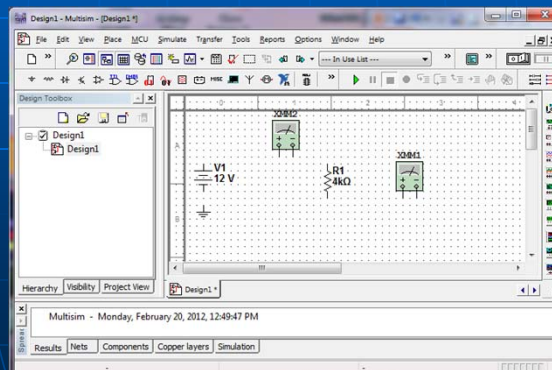
Lab Activities 6-1

- 4. Click on the ground symbol, chose the symbol and place it onto Design screen.
- 5. Continue to click on DC_POWER component, and place it in the design screen
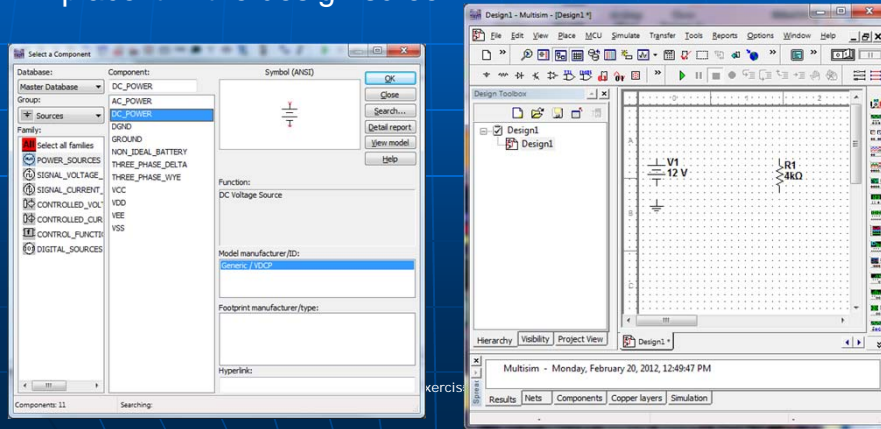
Lab Activities 6-1

- 6. Click on the ground symbol, chose the symbol and place it onto Design screen.
- 7. Continue to click on DC_POWER component, and place it in the design screen
- 8. Locate DMM and place them on the screen as shown below

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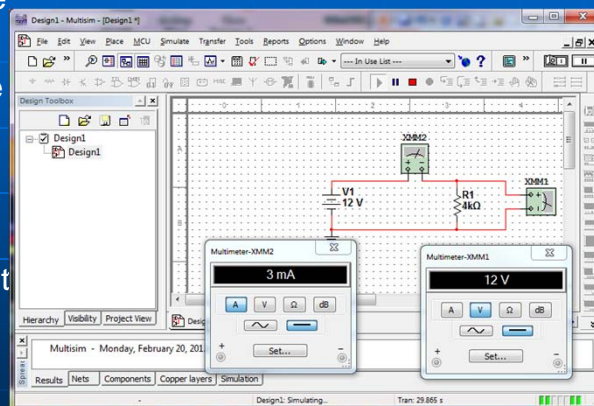
8

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Lab Activities 6-1

- 1. Start your Multisim 11 as shown below
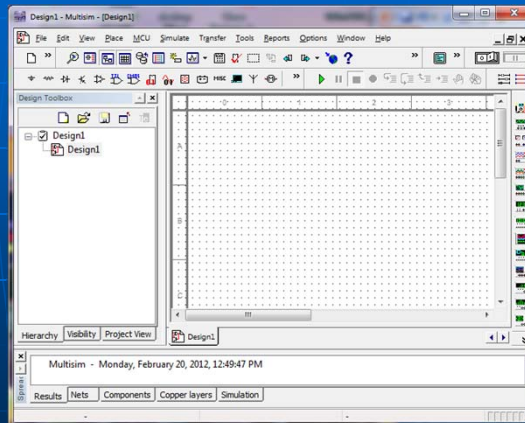
Lab Activities 6-1

- 10. Start your circuit simulation, by clicking on Simulate => Run

- 11. Double click the first DMM and change it to A meter; double click the second DMM and change it to volt meter.

- 12. Click Simulate => Stop to stop simulation

Lab Activities 6-2 and 6-3

Repeat the same procedure for

- Lab Activity 6-2: Multisim Exercise 2, a DC circuit with three resistors in series, volt meters and amp meters, pages 174-175

- Lab Activity 6-3: Multisim circuit examples using Fig 5.96 on page 179

- Prepare a lab report for the Lab activities 6-1, 6-2, and 6-3