

Lab 7

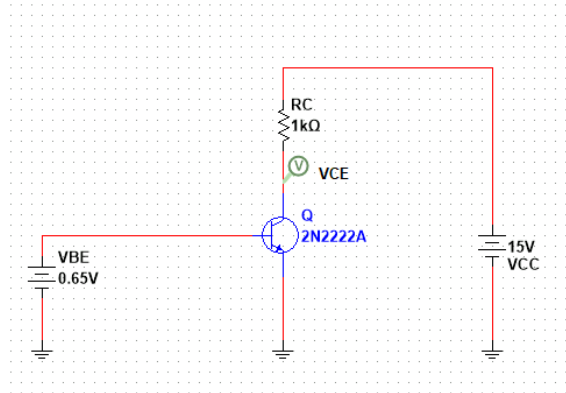
BJT Transistor Transfer Characteristics

Learning outcomes

- 1) Studying the transfer characteristics of BJT transistor (relation between V_{CE} & V_{BE})

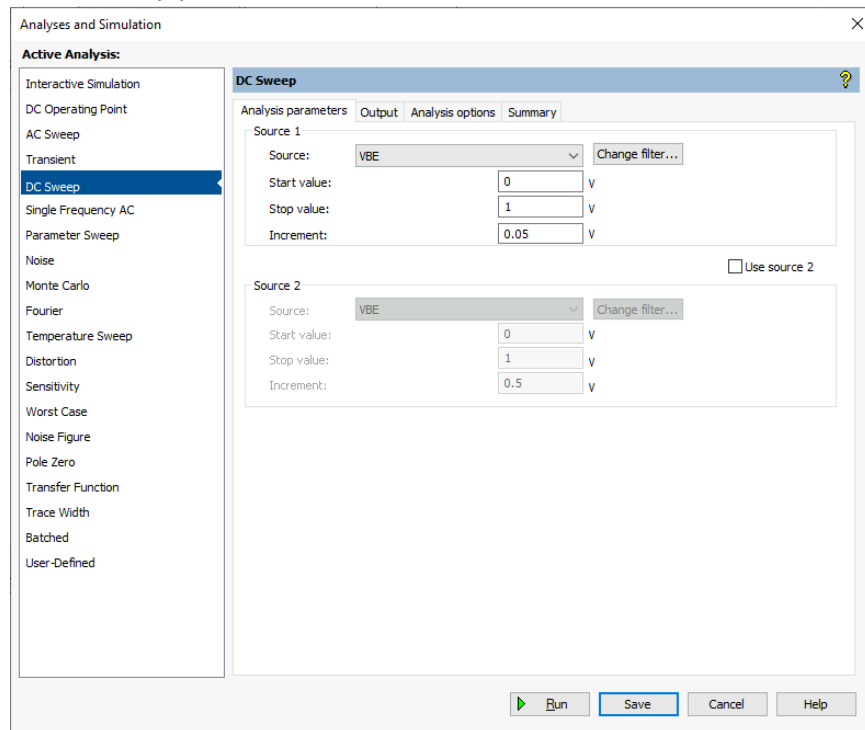
Experiment 1) Studying the relation between V_{CE} vs V_{BE}

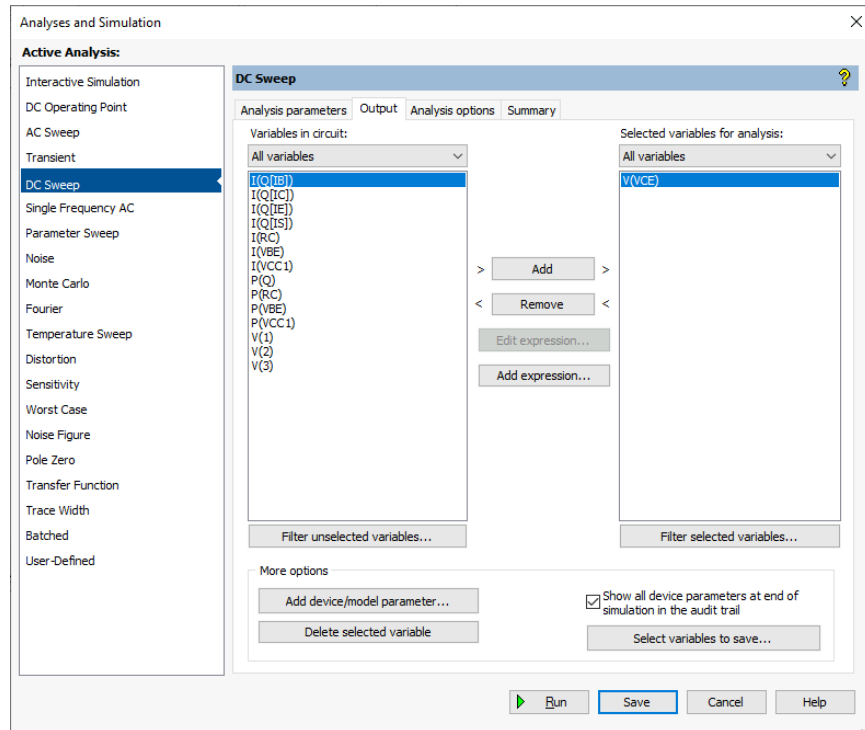
- A) Create a new Multisim project and construct the circuit shown



- B) Run sweep analysis as follows:

1. Set DC sweep parameters as shown below





2. Click Run and export output to excel
3. In Excel plot V_{CE} vs V_{BE} and copy and paste the figure below here

Place holder for V_{CE} vs V_{BE} figure

4. Put your comments below here

Place holder for comments on Exp 1

- 1- When we can use Tr as switch
- 2- When we can use Tr as amplifier