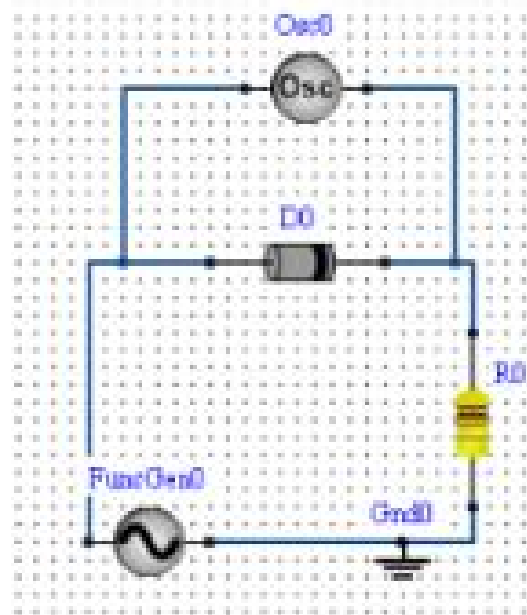


BASIC ELECTRONICS

Half wave Rectifiers

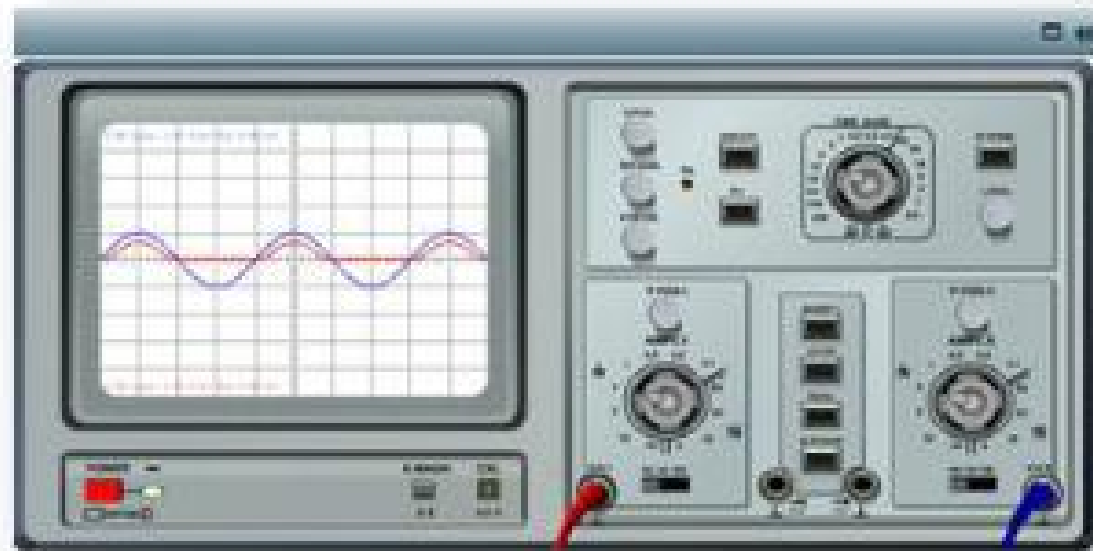
Half Rectifier - Experiment

1. Take a diode, and Load resistor of 1KOhms.
2. Connect to AC Voltage Source of 50 Hz , 2 V
3. Connect Oscilloscope and Ground.
4. Run simulation.



Half Rectifier - Results

Double Click on Oscilloscope to view results. In half wave rectification, either the positive or negative half of the AC wave is passed, while the other half is blocked. Because only one half of the input waveform reaches the output, it is very inefficient if used for power transfer.



Half Rectifier - Experiment

Questions.

1. Explain why there is a difference in amplitude between original waveform and rectified waveform ?
2. Explain why there is a difference in the time period between the non rectified portions between the input and the output waveforms ?

