Unit 1 –

SEMICONDUCTOR DIODES

Class 4

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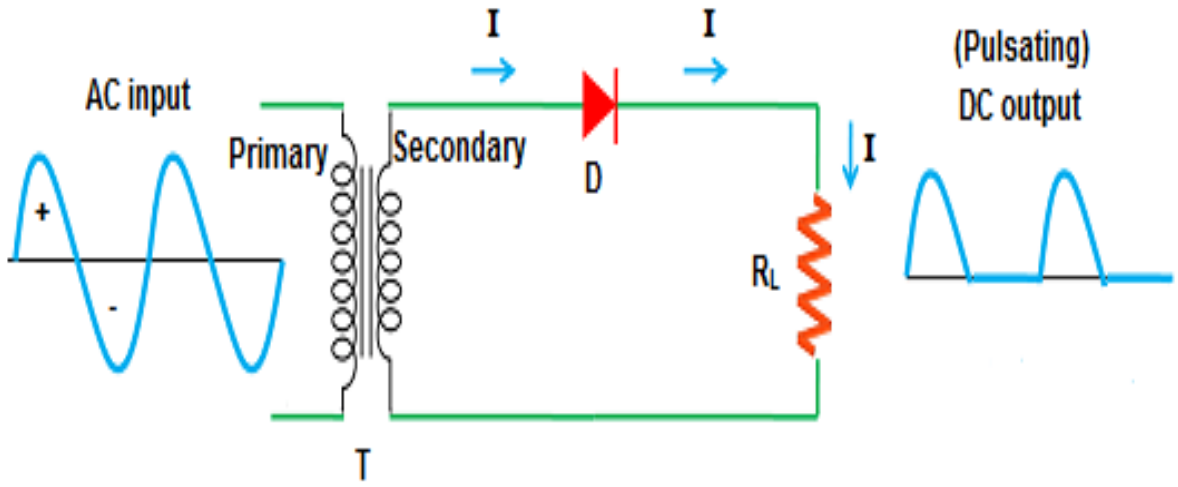
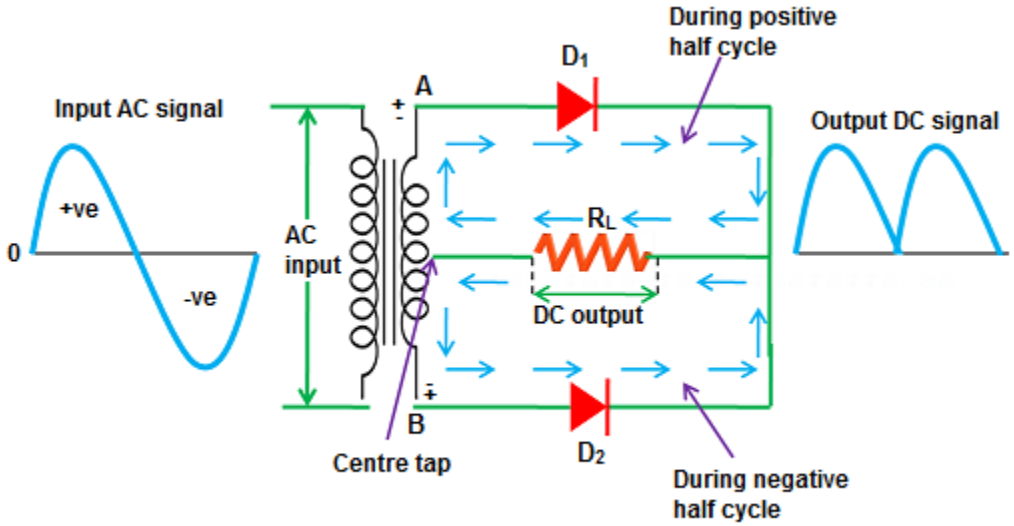
Dept. of Electronics and Communication Engineering
Dr.AIT

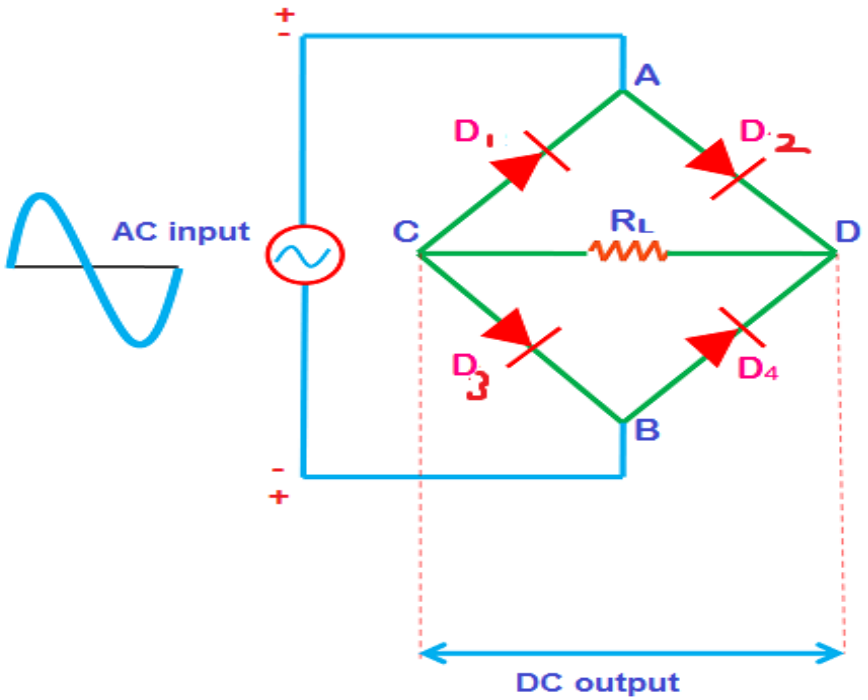
Have Wave Rectifier



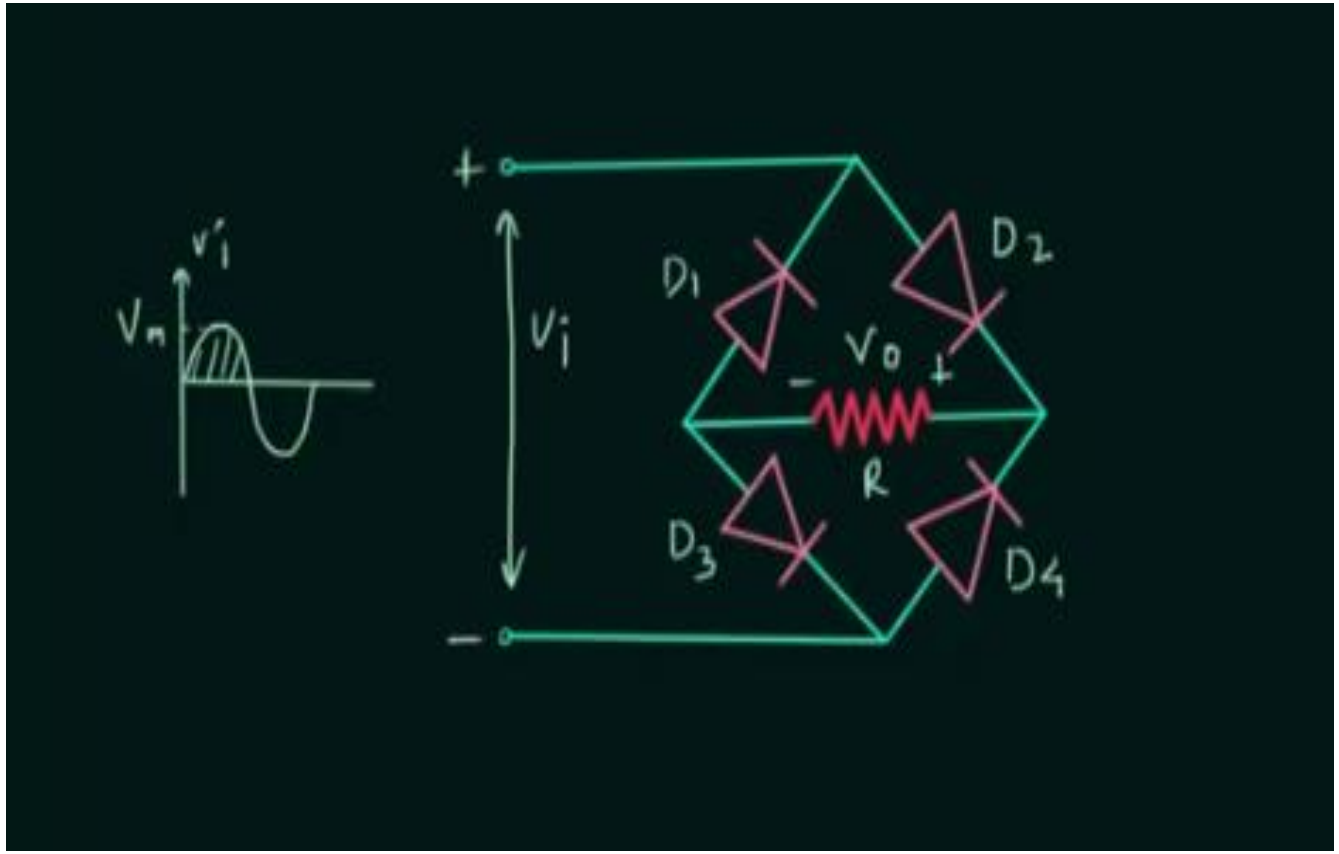
Full Wave Rectifier with centre-tapped



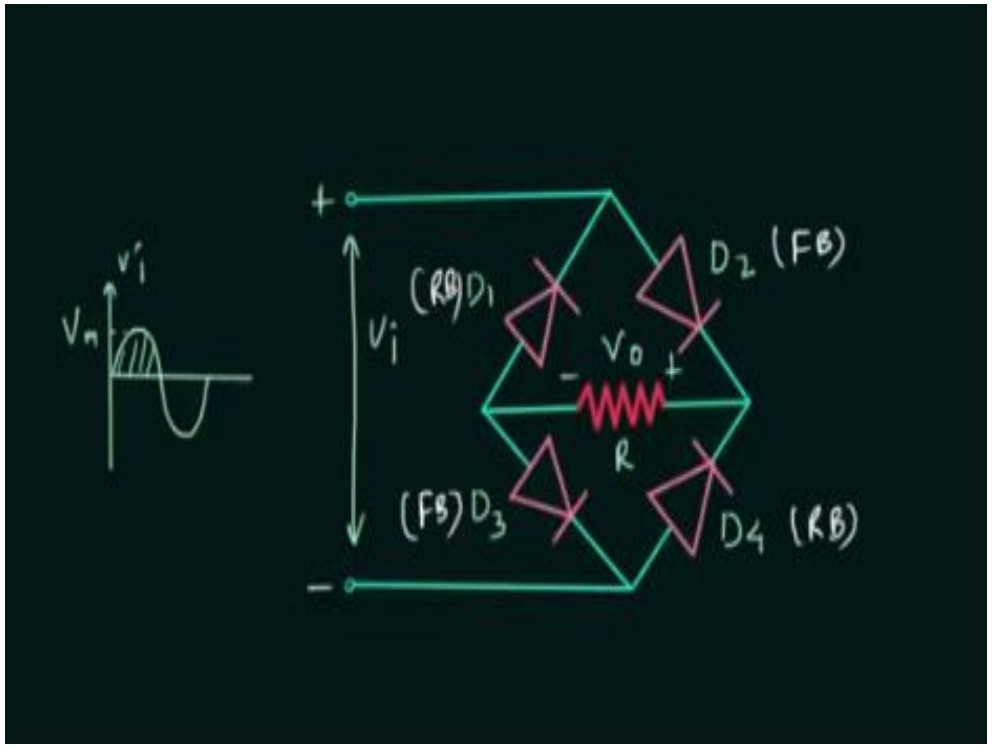
Full Wave Bridge Rectifier

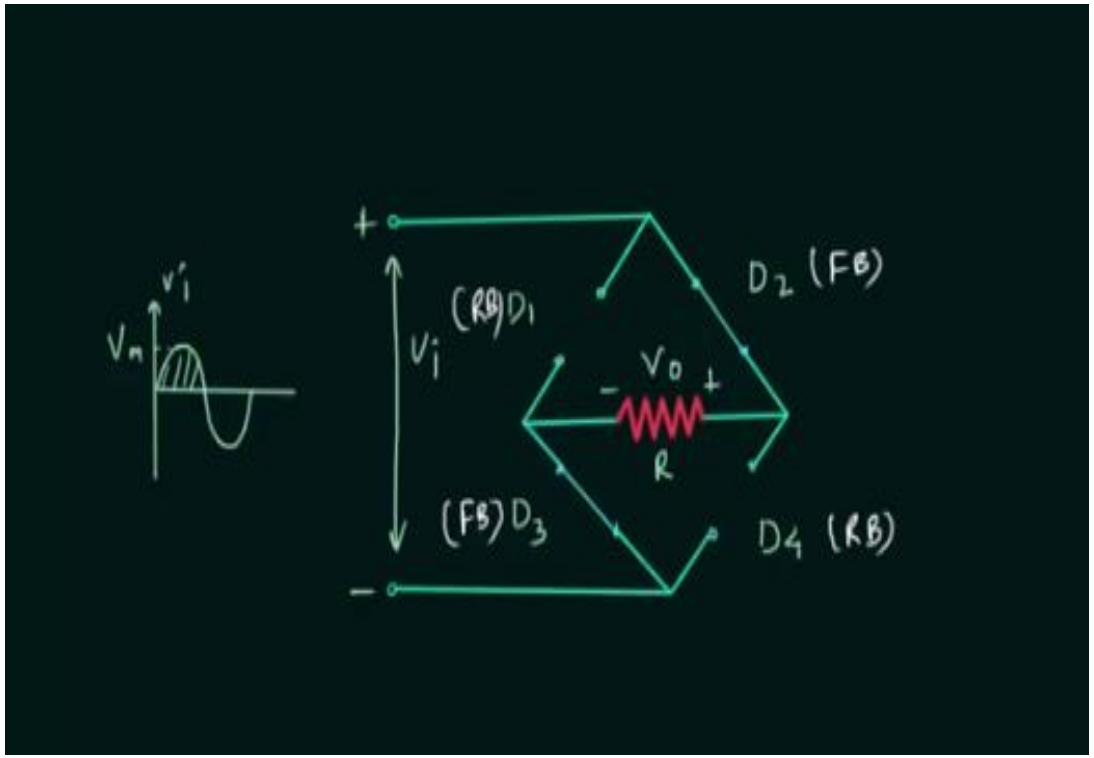


Full Wave Bridge Rectifier

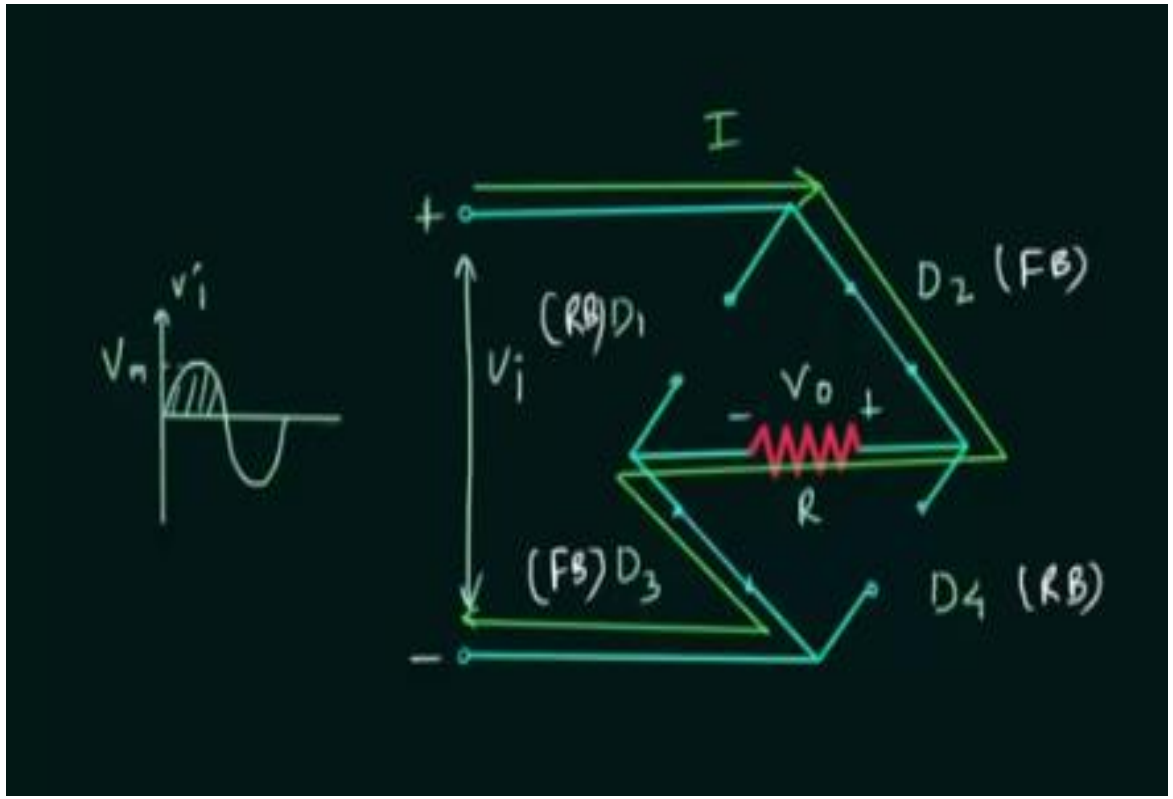


Full Wave Bridge Rectifier





Full Wave Bridge Rectifier

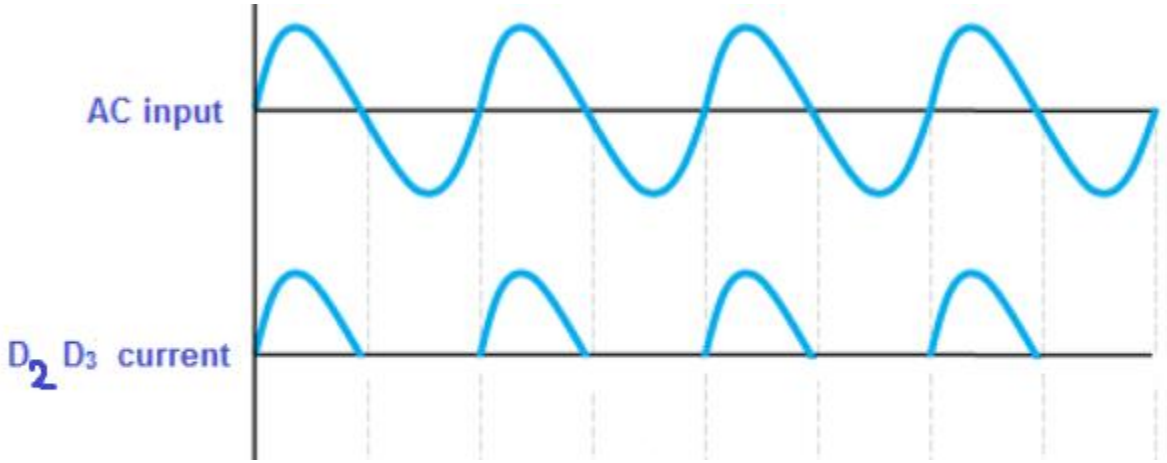


$+v_i - V_o = 0$

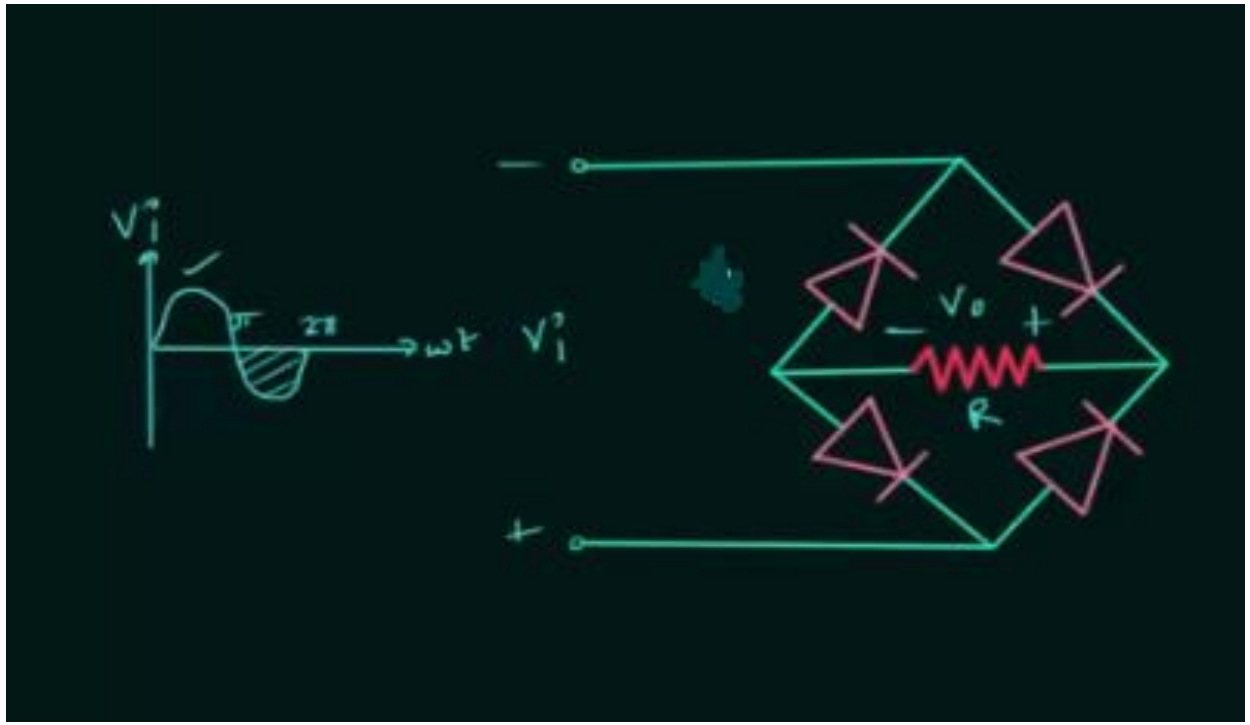
$V_o = V_i$ ideal model

Full Wave Bridge Rectifier

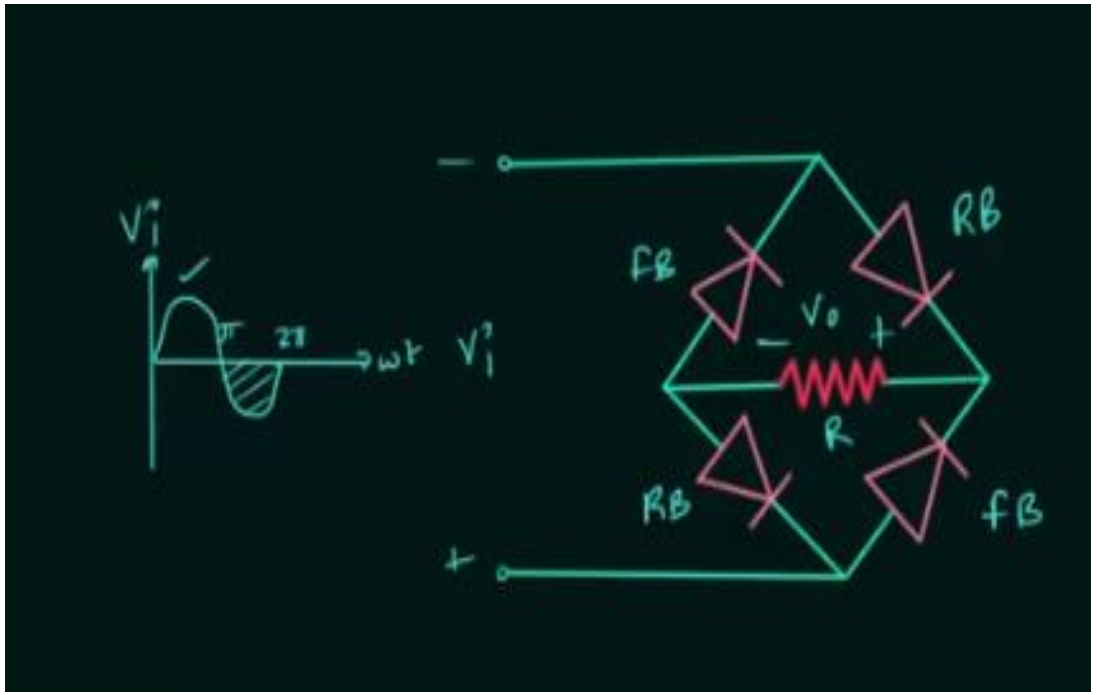
Full Wave Bridge Rectifier waveforms

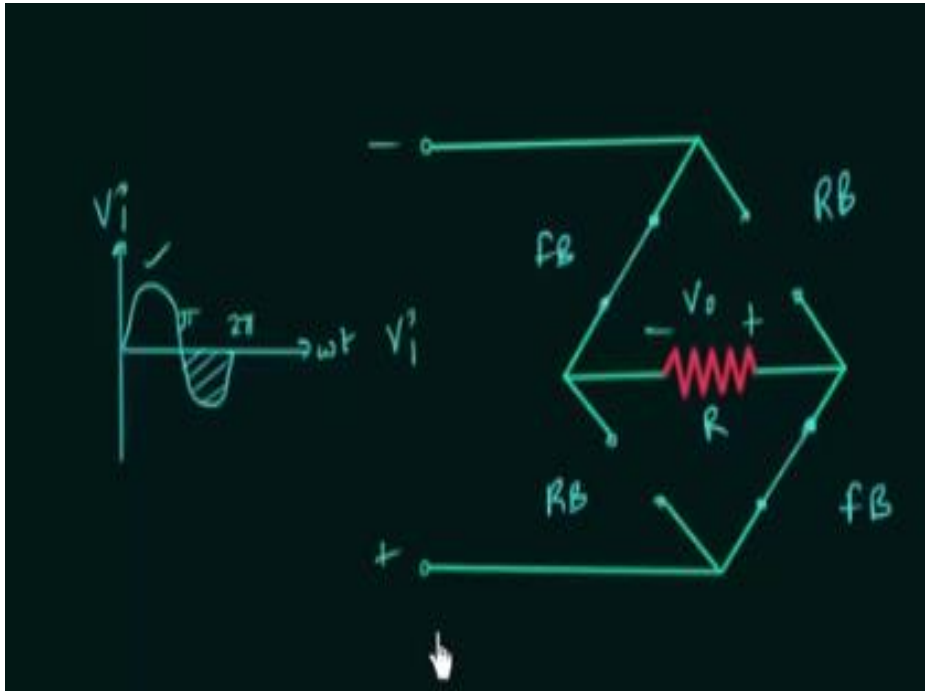


Full Wave Bridge Rectifier

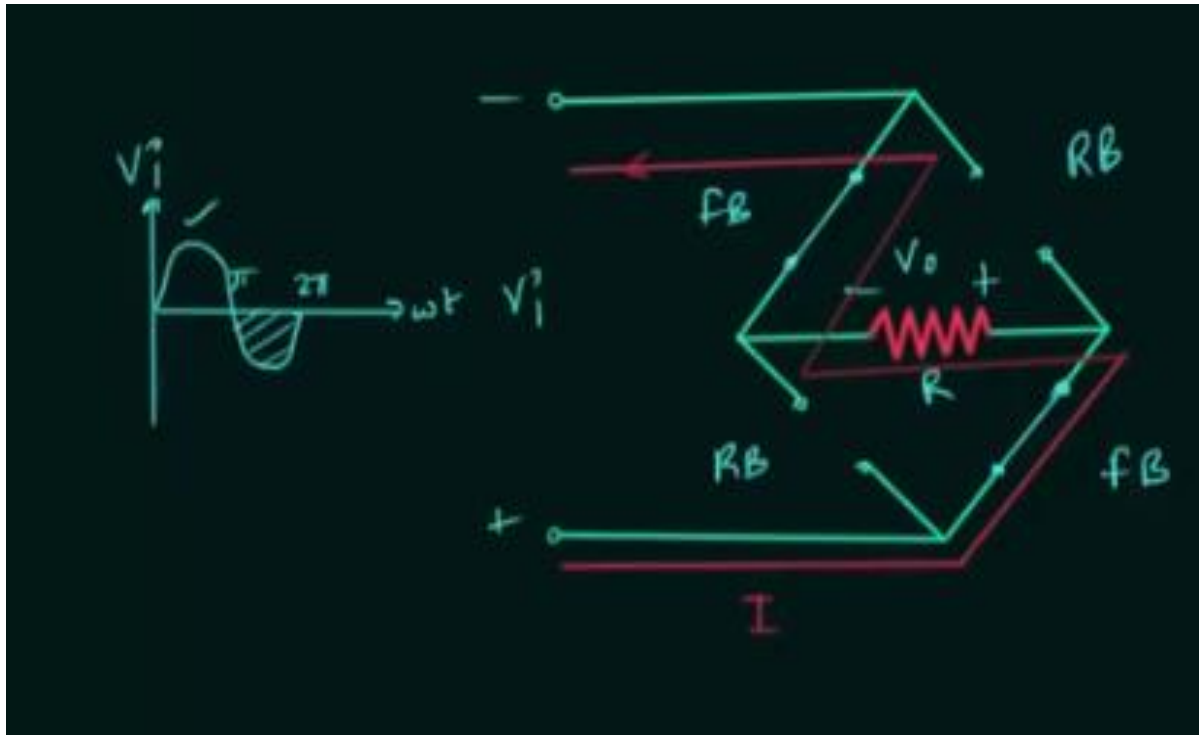


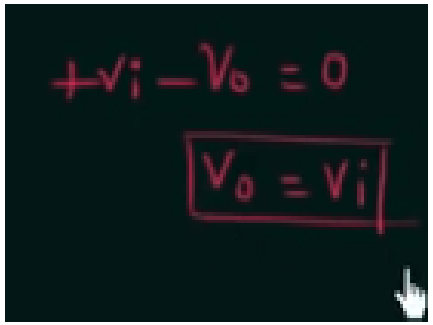
Full Wave Bridge Rectifier





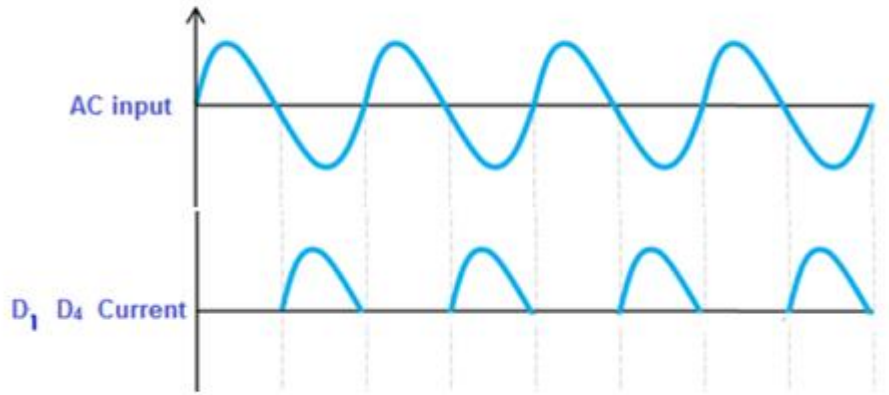
Full Wave Bridge Rectifier





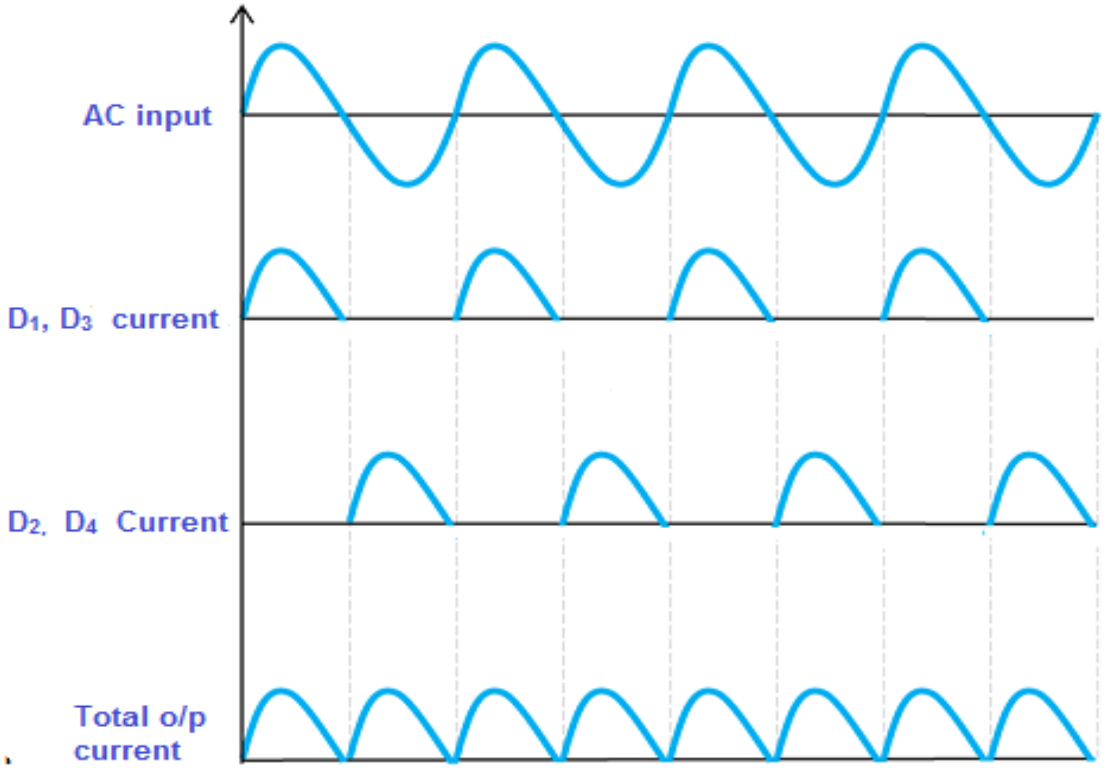
Full Wave Bridge Rectifier

Full Wave Bridge Rectifier waveforms



Full Wave Bridge Rectifier

Full Wave Bridge Rectifier waveforms

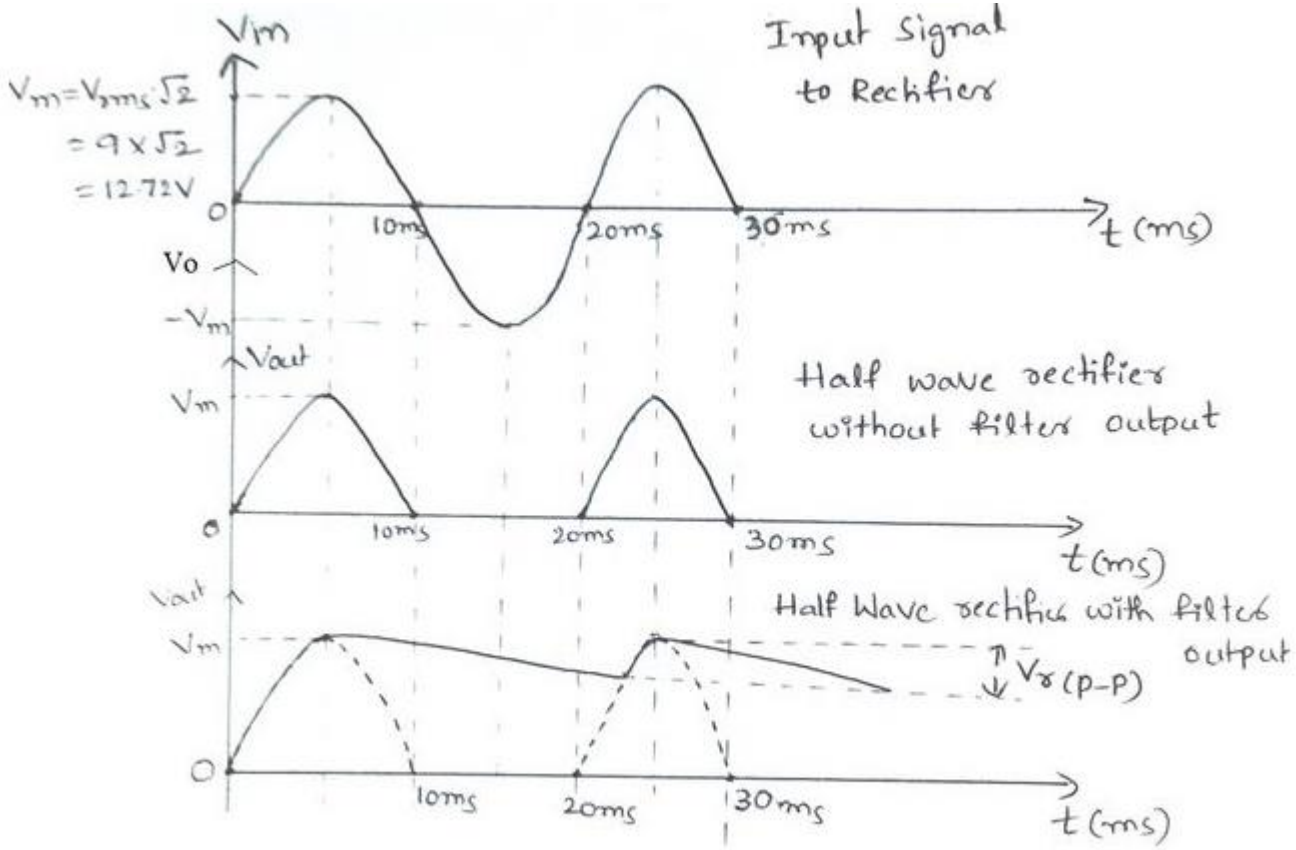


Thank You

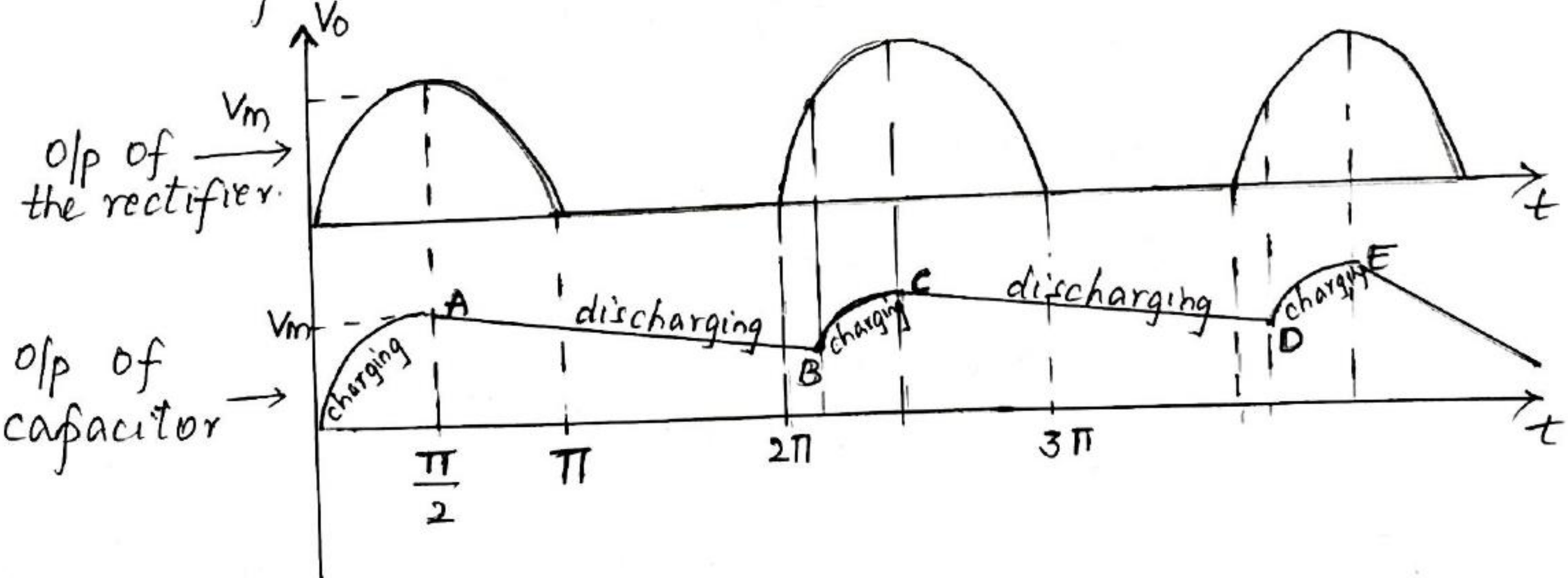
HAVE A NICE DAY

Full Wave Bridge Rectifier

Full Wave Bridge .

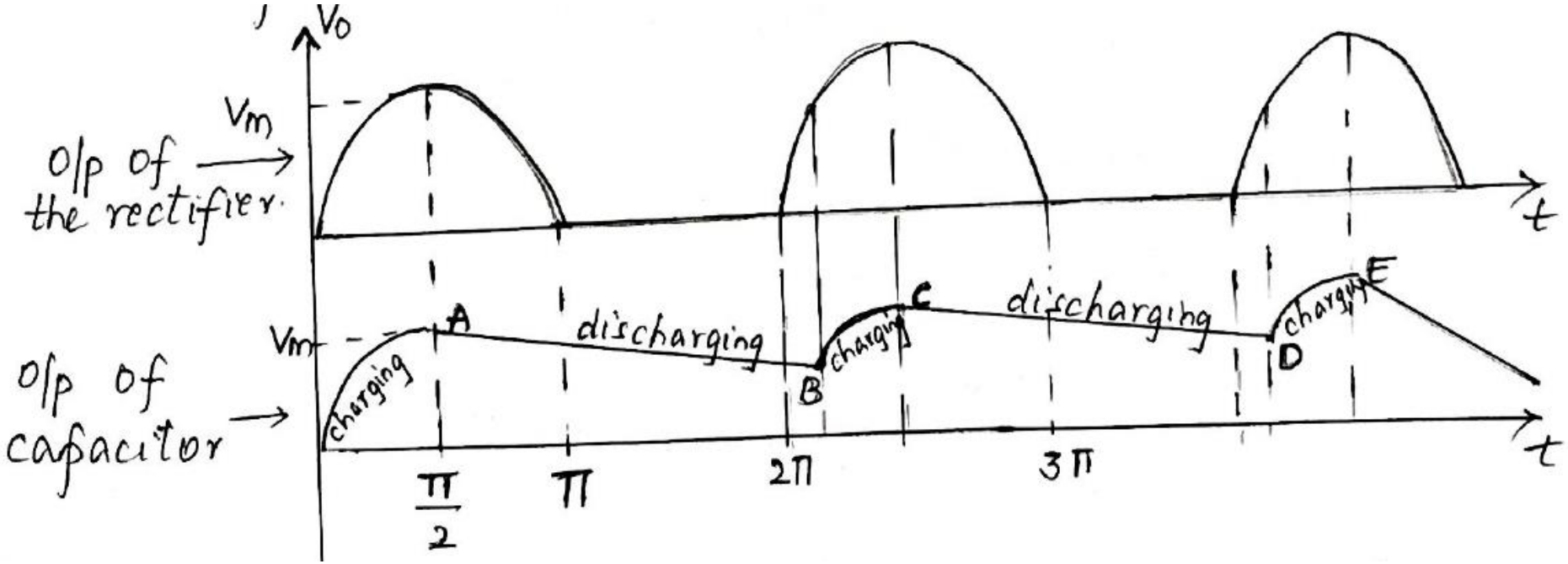


~~cap~~ charges the capacitor
Till the end of $\pi/2$ cycle, the capacitor is charged to peak value 'Vm' of the rectifier voltage, shown in Fig below: (pt A)



Full Wave Bridge Rectifier

Full Wave



Full Wave Bridge Rectifier

Full Wave Bridge Rectifier waveforms