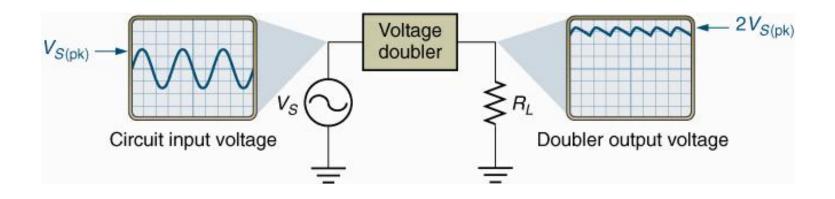
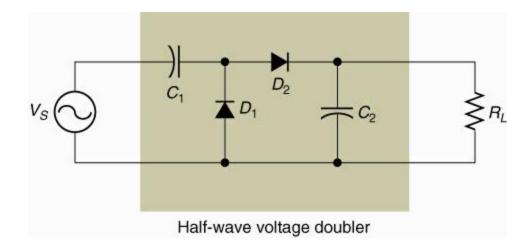
Voltage Doublers

• A voltage doubler provides an output that is twice its peak input voltage.

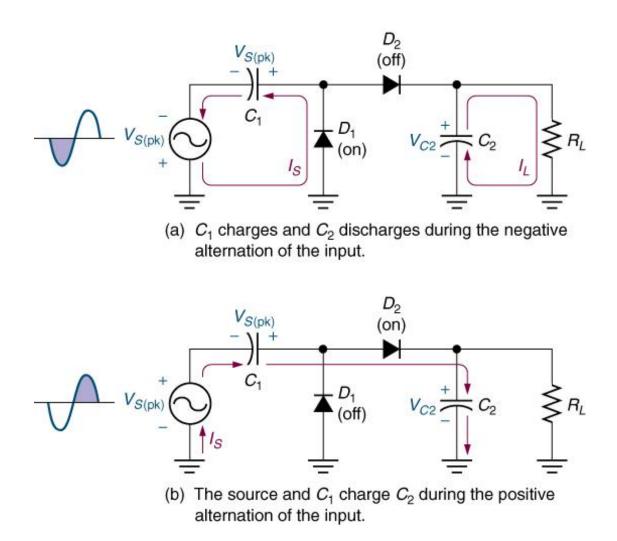


Half-Wave Voltage Doubler

 The term "half-wave" reflects the fact that the output capacitor (C₂) is charges during one alternation of each input cycle and discharges during the other.

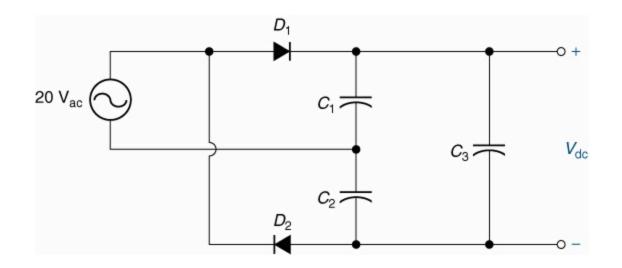


Half-Wave Voltage Doubler Operation



Full-Wave Voltage Doublers

• The term "full-wave" reflects the fact that the output capacitors are charged during alternate half-cycles of the input signal.



Voltage Tripler

• A voltage tripler provides a dc output voltage that is approximately three times the peak input voltage.

