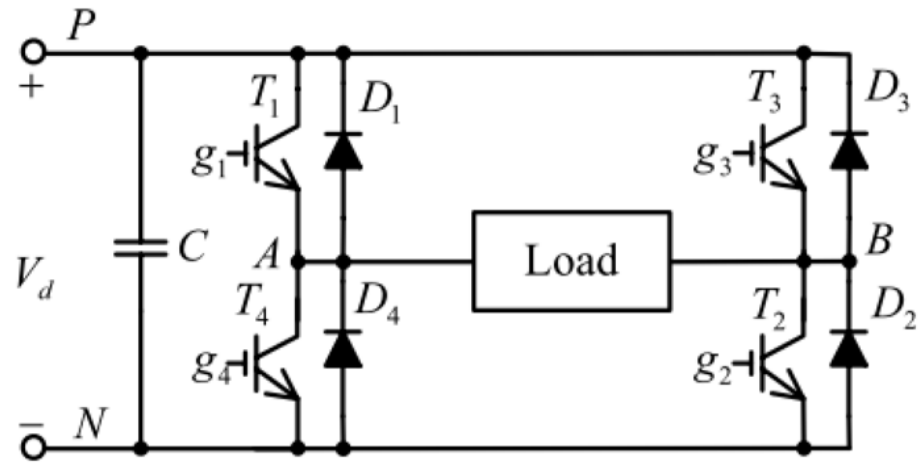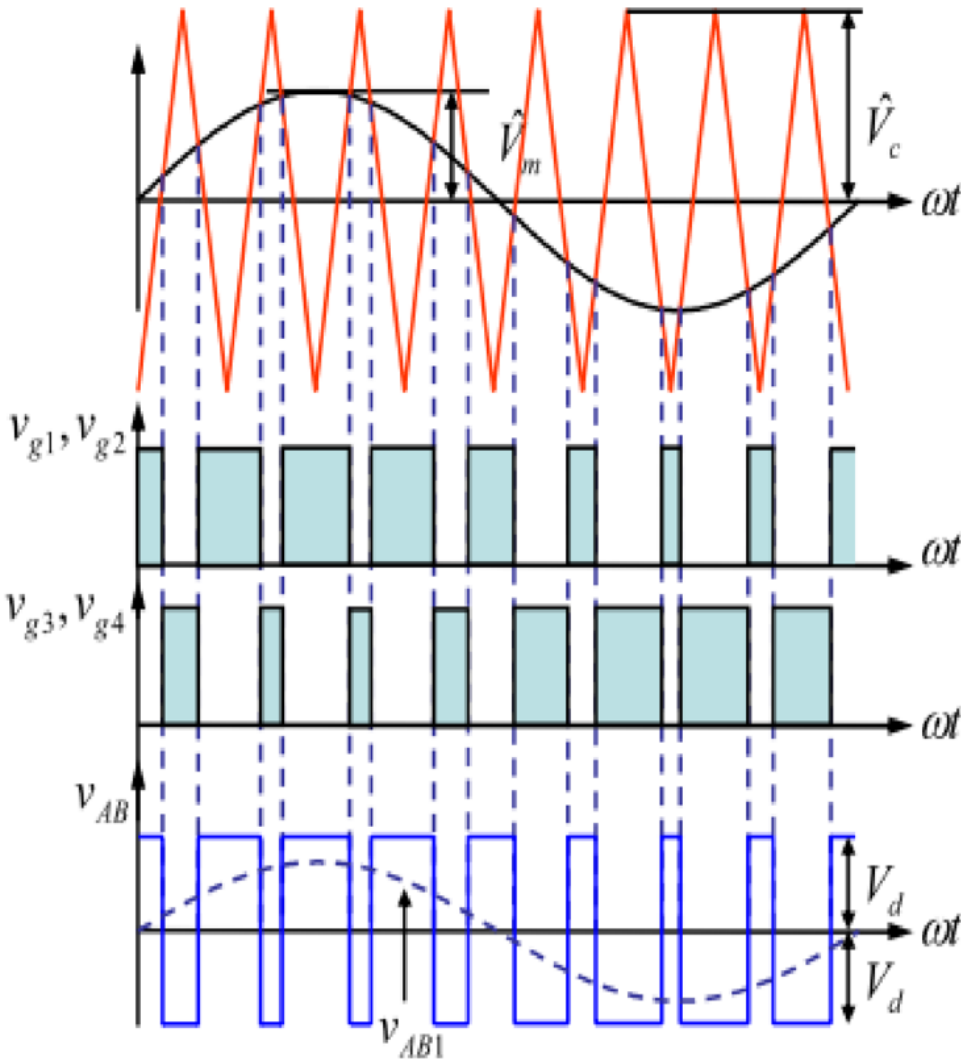# Single Phase Full Bridge with PWM operation

- Waveforms, bipolar PWM

(1) v_{g1} and v_{g4} are complimentary signals

v_{g2} and v_{g3} are complimentary signals

(2) $v_m \geq v_c \rightarrow v_{g1} = v_{g2} = $ logic "1"

$v_m < v_c \rightarrow v_{g1} = v_{g2} = $ logic "0"

(3) When $v_{g1} = v_{g2} = $ logic "1" $\rightarrow$ T1 and T2 on $\rightarrow v_{AB} = V_d$

When $v_{g1} = v_{g2} = $ logic "0" $\rightarrow$ T3 and T4 on $\rightarrow v_{AB} = -V_d$