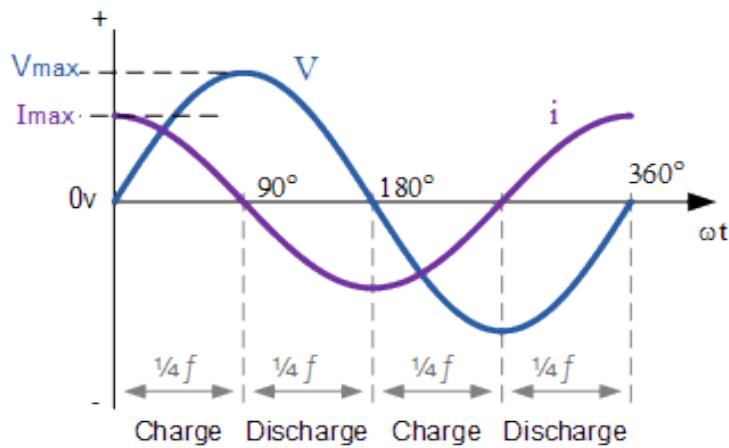


Answer on Question #70802, Physics / Electromagnetism

In case of A.C , the current leads voltage by 90 degree in CAPACITOR. what does this mean? is it mean that current goes first followed by voltage

Solution:

As we know, in case of A.C., both voltage and current are time dependent on the sinusoidal law. In every case, frequency of voltage and current waving are the same. Amplitudes are different, and phase between these oscillations can differ. In simple circuit (only passive resistance), voltage and current has no phase difference. In case of capacitor, phase difference is $\frac{\pi}{2}$



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