

Physics 1320: Study Guide for Chapter 31 AC circuits

OBJECTIVES:

- Use the loop rule to analyze
 - LC circuits
 - RLC circuits
 - Circuits with a driving AC power source

EQUATIONS:

LC Circuit:

Energy stored in Inductor: $U_B = \frac{1}{2}LI^2$

Energy stored in a capacitor: $U_E = \frac{q^2}{2C}$

$$Q(t) = Q_0 \cos \omega t \quad \text{where } \omega = \sqrt{\frac{1}{LC}}$$

$$I = \frac{dq}{dt} = -\frac{dQ}{dt}$$

RLC Circuit starting with a charged capacitor:

$$q(t) = Q_0 e^{-t/2\tau} \cos(\omega' t + \phi)$$

with time constant: $\tau = \frac{L}{R}$

$$\text{and } \omega' = \sqrt{\omega^2 - \left(\frac{R}{2L}\right)^2}$$

Circuits with alternating emf: $\mathcal{E} = \mathcal{E}_m \sin(\omega_d t)$

have a current $i = I \sin(\omega_d t - \phi)$

Voltages across circuit elements: Phase angle relative to I :

$V_R = IR$ $\phi = 0$ V_R is in phase with I

$V_C = IX_C$ $X_C = \frac{1}{\omega_d C}$ $\phi = -90^\circ$ V_C trails I by 90°

$V_L = IX_L$ $X_L = \omega_d L$ $\phi = +90^\circ$ V_L leads I by 90°

RLC circuit impedance $Z = \sqrt{R^2 + (X_L - X_C)^2}$

Heat And Ac Study Guide

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Adopting the Melody of Phrase: An Emotional Symphony within **Heat And Ac Study Guide**

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