

### Resonance and Energy Storage

#### Resonance in a Series RLC Circuit and Energy Storage in the Energy Storage Elements

Resonance in a series RLC circuit occurs when the inductive reactance  $X_L$  equals the capacitive reactance  $X_C$ . At resonance, the impedance is purely resistive and the current is in phase with the voltage.

#### Energy Storage in a Series RLC Circuit at Resonance

##### Energy

(i) The energy stored in the inductor and capacitor is equal. The maximum energy stored in the inductor is  $\frac{1}{2} L I_m^2$  and the maximum energy stored in the capacitor is  $\frac{1}{2} C V_m^2$ . At resonance,  $I_m = V_m / R$ .

(ii) The energy stored in the inductor and capacitor is equal. The maximum energy stored in the inductor is  $\frac{1}{2} L I_m^2$  and the maximum energy stored in the capacitor is  $\frac{1}{2} C V_m^2$ . At resonance,  $I_m = V_m / R$ .

(iii) The energy stored in the inductor and capacitor is equal. The maximum energy stored in the inductor is  $\frac{1}{2} L I_m^2$  and the maximum energy stored in the capacitor is  $\frac{1}{2} C V_m^2$ . At resonance,  $I_m = V_m / R$ .



#### Resonance in a Series RLC Circuit

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Resonance $\omega$	Impedance $Z$	$I_m$	$V_m$
$\omega = 1/LC$	$Z = R$	$I_m = V_m / R$	$V_m = I_m R$
$\omega = 1/LC$	$Z = R$	$I_m = V_m / R$	$V_m = I_m R$
$\omega = 1/LC$	$Z = R$	$I_m = V_m / R$	$V_m = I_m R$
$\omega = 1/LC$	$Z = R$	$I_m = V_m / R$	$V_m = I_m R$
$\omega = 1/LC$	$Z = R$	$I_m = V_m / R$	$V_m = I_m R$

# Resonance And Guitar Strings Physics Classroom Answers

**Blake Burnett**



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