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examining the driven rlc circuit let s first consider the simple cases where only one circuit element a resistor an inductor or a capacitor is connected to a sinusoidal voltage source 12 2 1 purely resistive load consider a purely resistive circuit with a resistor connected to an ac generator as shown

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ac circuit direct current dc and alternating current ac are the two types of electricity dc circuit and ac circuit show the structure of the respective circuit systems the main components of ac circuits are resistors capacitors and inductors

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phase angle between the source voltage and the current which can be found by dividing the resistance by the impedance the average power delivered to an rlc circuit is affected by the phase angle

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an rlc series circuit is a series combination of a resistor capacitor and inductor connected across an ac source 15 5 power in an ac circuit a circuit

element dissipates or produces power according to  $p = iv$  where  $i$  is the current through the element and  $v$  is the voltage across it since the current and the voltage both depend on time

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voiceover we now begin a whole new area of circuit analysis called sinusoidal steady state analysis you can also call it ac analysis ac stands for alternating current it means it is a voltage or a current that where the signal actually changes sign it is positive sometimes it is negative sometimes

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about transcript the ratio of a sinusoidal voltage to a sinusoidal

current is called impedance this is a generalization of ohm s law for resistors we derive the impedance of a resistor inductor and capacitor the inductor and capacitor impedance includes a term for frequency so the impedance of these components depends on frequency

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find the voltage source equivalent of a current source and vice versa compute voltages and currents in multi source rlc networks using superposition simplify rlc networks using thévenin s and norton s theorems determine conditions for maximum power transfer and compute the maximum power

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circuit analysis is the process of finding

all the currents and voltages in a network of connected components we look at the basic elements used to build circuits and find out what happens when elements are connected together into a circuit

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which the amount of either the voltage or the current alters about a distinct mean value and reverses direction periodically in an ac circuit the source voltage and current

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$\omega$  represents the frequency of a sine wave when we write it this way  $\sin \omega t$  if  $\omega = 1$  the sin completes one cycle in  $2\pi$  seconds if  $\omega = 2\pi$  the sin completes one cycle sooner every 1 second for  $f = 1$  if  $\omega$

$2\pi f$  the sin completes one cycle even faster every  $1/f$  seconds or equivalently sin completes  $f$  cycles in 1 second  
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