

CHAPTER 1
ELIMINATION OF ARBITRARY CONSTANTS

1. $y^2 - 3xy = C$

$2x^2dx - 3x^2dy - 3y(2x)dx = 0$

$2x^2dx - 3x^2dy - 6xydx = 0$

divide by $2x^2$,

$x^2 - 3y - 3ydx = 0$

$(x^2 - 3y)dx - 3ydx = 0$ and

① $x = A \sin(\omega t + \phi)$; $y = B \sin(\omega t + \phi)$

② $x = A \cos(\omega t + \phi)$

$\frac{dx}{dt} = -A\omega \sin(\omega t + \phi)$

$y = B \sin^2(\omega t + \phi)$

$y = B \sin(\omega t + \phi)$

$\frac{dy}{dt} = B\omega \cos(\omega t + \phi)$

$\frac{dy}{dx} = \frac{B\omega \cos(\omega t + \phi)}{B \sin(\omega t + \phi)} = \cot(\omega t + \phi)$ and

2. $y \ln x = x y^2 = 0$

$y(\ln x + 1) + \ln x dy - y^2 dx = 0$

$y^2 dx - y^2 dy + \ln x dy - y^2 dx = 0$

$y^2 dy + (\ln x - y^2)dx = 0$ and

3. $x^2y = 1 + Cx$

$x^2dy + 2xydx = 0 + Cdx$

divide by x^2 ,

$2ydx + 2x^2dy = Cdx$

Separate,

$2ydx = 1 + \left[x^2 \frac{dy}{dx} + 2x^2y \right] x$

$2ydx = 1 + x^2 \frac{dy}{dx} + 2x^2y$

$x^2dy = dx + x^2dy + 2x^2ydx$

$dx + x^2dy = x^2ydx + x^2ydx + 0$

$x^2ydx + x^2ydx = 0$

$(x^2y + 1)dx + x^2ydx = 0$ and

4. $xy^2 = x^2 + y$

$\frac{x^2 + y}{xy^2} = 1/C$

$\frac{x^2}{xy^2} + \frac{y}{xy^2} = 1/C$
 $\frac{x}{y^2} + \frac{1}{x} = 1/C$

$x^2y^2dx + y^3dy + x^2y^2dx - x^2y^2dx = 0$

divide by x^2y^2 ,

$y^3dy + y^3dy - y^3dy = 0$

$y^3dy = (1 - 1 + 1)y^3dy = 0$

$y^3dy = 0$ and

① $x = A \sin(\omega t + \phi)$; $y = B \sin(\omega t + \phi)$

② $x = A \cos(\omega t + \phi)$

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$\frac{dy}{dx} = \frac{B\omega \cos(\omega t + \phi)}{B \sin(\omega t + \phi)} = \cot(\omega t + \phi)$ and

5. $y = C_1 \sin(\omega t) + C_2 \cos(\omega t)$

$\omega t = \text{constant}$

$\frac{dy}{dt} = C_1 \omega \cos(\omega t) + C_2 \omega \sin(\omega t)$

$\frac{d^2y}{dt^2} = C_1 \omega^2 \sin(\omega t) + C_2 \omega^2 \cos(\omega t)$

$y = C_1 \sin(\omega t) + C_2 \cos(\omega t)$

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The American Mathematical Monthly, 1981

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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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chapter 2 analysis of ac systems we started out this chapter by discussing power in dc circuits now we will take a detailed look at alternating current and we will also discuss power dissipation with respect to ac that is flowing through a purely resistive load what is

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what you ll learn this course demonstrates how to analyze circuits involving alternative current sources resistors capacitors inductors this course also a great way to go for those who are planning to contemplate a career in electrical engineering or any engineering related to circuits

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simple ac circuit calculations pdf version over the course of the next few chapters you will learn that ac circuit measurements and calculations can get very complicated due to the complex nature of alternating current in circuits with inductance and capacitance

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sep 12 2022 figure 15 4 1 15 4 1 a an rlc series circuit b a comparison of the generator output voltage and the current the value of the phase difference ϕ depends on the values of r c and l since the elements are in series the same current flows through each element at all points in time the relative phase between the current and the emf

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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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jun 29 2022 alternating current circuits or ac circuits are simply circuits powered by an alternating source either current or voltage an alternating voltage or current is one in 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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ω 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 2π 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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ac circuit analysis notes provide a comprehensive overview of alternating current theory covering topics such as impedance reactance ac power calculation phasor diagrams resonance in ac circuits complex numbers in ac circuits ac circuit equations and ac circuit components