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#76: Phasor

Representation

Example 1 Phasor

Addition #2 Questions

1 a,b,c Phasor

addition Basic

Phasors and the

simple Wave Function

Phasors (Solved

Problem 2) ~~Diffraction~~

~~interference patterns~~

~~with phasor diagrams~~

HOW TO ADD

SUBTRACT

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MULTIPLY DIVIDE
PHASORS USING
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Circuit using Phasors
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Phasor Addition Example #1 □
Consider the signal □
Find such that By inspection □ Note □ To obtain a numerical

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solution for we may simply enter values into a calculator □ Working out more of the lower level steps, we can start by writing □ Evaluating the cos and sin terms we have

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ECE 2610 Example

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Addition Example #1

Consider the signal

Find such that $x(t) = 87$

$2\cos(880t) + 4\sqrt{12}\operatorname{Re}$

$3 + j4 e^{j2(880t)} + 6$

$28\sqrt{2} + \sin(880t) + 8$

$X_A e^{j\omega t} = A \cos(2$

$880t) +$

Phasor Addition

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The phasor diagram

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for these two oscillations looks like this: The resultant phasor can be determined from the vector addition of the phasors. Phasor $x = 25 \cos \omega t$ and $y = 25 \sin \omega t$.
 $x = 25 \cos \omega t = 25 \cos 6 = 21.6$
 $y = 25 \sin \omega t = 25 \sin 6 = 12.5$
 $x = 15 \cos \omega t = 15 \cos 3 = 12.5$
 $y = 15 \sin \omega t = 15 \sin 3 = 7.5$
Total $x = 21.6 + 12.5 = 34.1$
Total $y = 12.5 + 7.5 = 20.0$
So, the amplitude of the resultant phasor is $A_{tot} = \sqrt{34.1^2 + 20.0^2} = 40.0$

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38.7cm, and its initial
phase ...

Example 1

Phasor Handout, Part
2 Adding Phasors -

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Example 1 An
important example is
 $V_m = 340V$ and $f =$
 $50Hz$. This means

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that every second the
voltage supply
undergoes 50 cycles.

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learning with its use of
these original
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Example 1 College Of
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Example 1 An
important example is
 $V_m = 340V$ and $f =$
 $50Hz$. This means
that every second the
voltage supply
undergoes 50 cycles.
Its period is $T = 1/f =$
 $1/50 = 0.02s$. This is
the voltage and ... In
the phasor diagram:
everything is defined

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relative to the
reference phasor
(which is always
chosen to point to the
right).

AC Systems and
Phasors

Phasor notation
proves extremely
useful to compare or
combine AC
quantities at the same
frequency that are out-

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of-phase with each other. Consider the following example, showing two AC voltage waveforms of equal magnitude (5 volts peak) that are a constant 60 degrees ($\frac{\pi}{3}$ radians) out of step with each other:

Phasors, Phase Shift
and Phasor Algebra |

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Basic ..

$x(t) = \text{Real}\{X \exp(j2\pi ft)\}$ (1.1.3) An sample calculation of phasors is included in Example 1.1.

Example 1.1: Basic Phasor Transform

Problem: Convert the function $7\sin(2\pi t)$ into the phasor domain and then back into the time domain. Solution:

1. To go into the

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phasor domain, we first recognize that if $x(t)=7\sin(2\pi t)$, we may also write this as ...

Engineering

NOTES ON PHASORS

One key phasor property is the additive property. If you add sinusoids that have the same frequency, then the resulting phasor is

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Simply the vector sum of the phasors \square just like adding vectors: $V = V_1 + V_2 + \dots + V_N$.

For this equation to work, phasors V_1, V_2, \dots, V_N must have the same frequency. You find this property useful when using ...

How to Use Phasors for Circuit Analysis - dummies

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4 You can visualize these using an Argand diagram, which is just a plot of imaginary part vs. real part of a complex number. For example, $z = 3 + j4 = 5e^{j0.927}$ is plotted at rectangular coordinates (3,4) and polar coordinates (5,0.927), where 0.927 is the angle in radians measured

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counterclockwise from
the positive real

1 COMPLEX NUMBERS AND PHASORS

Phasor Addition
Sometimes it is
necessary when
studying sinusoids to
add together two
alternating
waveforms, for
example in an AC

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series circuit, that are not in-phase with each other. If they are in-phase that is, there is no phase shift then they can be added together in the same way as DC values to find the algebraic sum of the two vectors.

Phasor Diagram and
Phasor Algebra used
in AC Circuits

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A phasor is a vector in the complex plane that represents the amplitude and phase of a sinusoid. Phasors are widely used in circuit analysis, Fourier analysis...

The Phasor Addition Rule - YouTube
Phasor Notation Problems (Converting from sinusoids to

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phasors) Ex 1)

Convert the following
sinusoid to phasor

notation: $v(t) =$

$$-4\sin(30t + 50^\circ)$$

Step 1) Express
the sinusoid in
positive cosine form
so that it can be
written as the real part
of a complex number.

Phasor Notation
Problems (Converting

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from sinusoids to ...

▫ Phasor Examples +

▫ Phasor arithmetic

▫ Complex

Impedances ▫ Phasor

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Admittance ▫ Summary

E1.1 Analysis of

Circuits (2017-10213)

Phasors: 10 ▫ 2 / 11

For inductors and

capacitors $i = C dv/dt$

and $v = L di/dt$ so we

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need to differentiate $i(t)$ and $v(t)$ when analysing circuits containing them. Usually ...

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and science

lectures! In this video I
will explain how to
add voltages by
converting to phasor
format. Next video...

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...

A phasor can also be
expressed in
rectangular form, i.e.,

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as a complex number consisting of a real part and an imaginary part (in the context of circuit analysis, the imaginary portion of a complex number is preceded by the letter j instead of i). For example: Thus, the polar-form phasor $5 \angle 36.87^\circ$ corresponds to the complex number $4 + j3$.

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