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Circuit Theory Problems Solutions
Solutions to the problems in Circuit Theory 1. We have the circuit on the right, with a driving voltage US = 5 V, and we want to know U and I. a. R = 1000 Ω; the total resistance in the circuit is then Rtot = 1010 Ω, and we can use Ohm's law to find I = U S/R tot = 5/1010 A = 4.95 mA and U = RI = 4.95 V. b.

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Solution. The given equation is υ = 10sin (3 π×10 4 t) EXAMPLE 4.25. The current in an inductive circuit is given by 0.3 sin (200t – 40°) A. Write the equation for the voltage across it if the inductance is 40 mH. Solution. L = 40 × 10-3 H; i = 0.1 sin (200t – 40º) X L = ωL = 200 × 40 × 10-3 = 8 Ω. V m = I m X L = 0.3 × 8 = 2.4 V

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solution Follow the rules for series circuits. Resistances in series add up. Total current is determined by the voltage of the power supply and the equivalent resistance of the circuit.

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in new circuit • Solution: Original method: short terminals A and B as shown in the picture. Find the current I going through A to B. R th can be found by V/I,where V is the voltage we get from last problem. R 2,3 = R 2 + R 3 = 2 Ohm R 2,3,1 = R 2,3 || R 1 = 2/3 ohm R sigma = R 1,2,3,4 = R 2,3,1 + R 4 = 8/3 ohm I sigma = V 1 /R sigma = 45/8 A I AB = I sigma * (R 2 +R 3) / (R 1 +R 2 +R

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Figure 12.2.2 (a) Time dependence of IR (t) and VR (t) across the resistor.(b) Phasor diagram for the resistive circuit. The behavior of IR (t)and can also be represented with a phasor diagram, as shown in Figure 12.2.2(b). A phasor is a rotating vector having the following properties:

Chapter 12 Alternating-Current Circuits
Nodal analysis problems |part-3(Kvl&Kcl)|Linear circuit Theory|Physics|Electronics|B.sc/B.tech|hindi Nodal analysis problems |part-3(Kvl&Kcl)|Linear circuit ...

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CIRCUIT THEOREMS C.T. Pan2 4.6 Superposition Theorem 4.7 Thevenin’s Theorem 4.8 Norton’s Theorem 4.9 Source Transformation 4.10 Maximum Power Transfer Theorem The relationship f (x) between cause x and effect y is linear if f (`)is both additive and homogeneous. definition of additive property If f(x1)=y1, f(x2)=y2then f(x1+x2)=y1+y2

CIRCUIT THEOREMS
solution of engineering problems. The skill here is the ability to apply the fundamentals of these areas in the solution of a problem. So how ... Electric circuit theory and electromagnetic theory are the two funda-mental theories upon which all branches of electrical engineering are

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