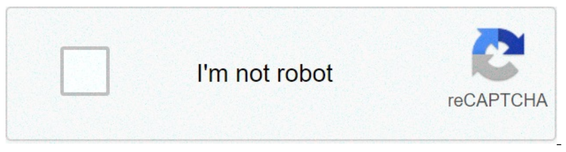


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No part of this Manual may be displayed, reproduced or distributed in any form or by any means, without the prior written permission of the publisher, or used beyond the limited distribution to teachers and educators permitted by McGraw-Hill for their individual course preparation. If you are a student using this Manual, you are using it without permission.Chapter 3, Problem 2. For the circuit in Fig. 3.51, obtain v1 and v2.Figure 3.51Chapter 3, Solution 2 At node 1, v1 v1 v v2 = 6+ 1 10 5 2At node 2,60 = - 8v1 + 5v2(1)v2 v v2 = 3+ 6+ 1 4 2Solving (1) and (2), v1 = 0 V, v2 = 12 V36 = - 2v1 + 3v2(2)PROPRIETARY MATERIAL. 2007 The McGraw-Hill Companies, Inc. All rights reserved. No part of this Manual may be displayed, reproduced or distributed in any form or by any means, without the prior written permission of the publisher, or used beyond the limited distribution to teachers and educators permitted by McGraw-Hill for their individual course preparation. If you are a student using this Manual, you are using it without permission.Chapter 3, Problem 3. Find the currents i1 through i4 and the voltage vo in the circuit in Fig. 3.52.Figure 3.52Chapter 3, Solution 3 Applying KCL to the upper node, 10 =v0 vo vo v + + +2+ 0 10 20 30 60v0 = 40 Vi1 =v0 v v v = 4 A , i2 = 0 = 2 A, i3 = 0 = 1.3333 A, i4 = 0 = 666.7 mA 10 20 30 60PROPRIETARY MATERIAL. 2007 The McGraw-Hill Companies, Inc. All rights reserved. No part of this Manual may be displayed, reproduced or distributed in any form or by any means, without the prior written permission of the publisher, or used beyond the limited distribution to teachers and educators permitted by McGraw-Hill for their individual course preparation. If you are a student using this Manual, you are using it without permission.Chapter 3, Problem 4. Given the circuit in Fig. 3.53, calculate the currents i1 through i4.Figure 3.53Chapter 3, Solution 4 v1 i1 4A52A i210 10 v2 i35i4 5AAt node 1, 4 + 2 = v1/(5) + v1/(10) At node 2, 5 - 2 = v2/(10) + v2/(5) v2 = 10 v1 = 20i1 = v1/(5) = 4 A, i2 = v1/(10) = 2 A, i3 = v2/(10) = 1 A, i4 = v2/(5) = 2 APROPRIETARY MATERIAL. 2007 The McGraw-Hill Companies, Inc. All rights reserved. No part of this Manual may be displayed, reproduced or distributed in any form or by any means, without the prior written permission of the publisher, or used beyond the limited distribution to teachers and educators permitted by McGraw-Hill for their individual course preparation. If you are a student using this Manual, you are using it without permission.Chapter 3, Problem 5. Obtain v0 in the circuit of Fig. 3.54.Figure 3.54 Chapter 3, Solution 5 Apply KCL to the top node.30 v 0 20 v 0 v 0 + = 2k 5k 4kChapter 3, Problem 6.v0 = 20 VUse nodal analysis to obtain v0 in the circuit in Fig. 3.55.Figure 3.55 Chapter 3, Solution 6 i1 + i2 + i3 = 0v 2 12 v 0 v 0 10 + + =0 4 6 2or v0 = 8.727 VPROPRIETARY MATERIAL. 2007 The McGraw-Hill Companies, Inc. All rights reserved. No part of this Manual may be displayed, reproduced or distributed in any form or by any means, without the prior written permission of the publisher, or used beyond the limited distribution to teachers and educators permitted by McGraw-Hill for their individual course preparation. If you are a student using this Manual, you are using it without permission.Chapter 3, Problem 7. Apply nodal analysis to solve for Vx in the circuit in Fig. 3.56.+ 2A 10 Vx _ 20 0.2 VxFigure 3.56 For Prob. 3.7.Chapter 3, Solution 7V 0 Vx 0 2+ x + + 0.2Vx = 0 10 200.35Vx = 2 or Vx = 5.714 V. Substituting into the original equation for a check we get, 0.5714 + 0.2857 + 1.1428 = 1.9999 checks!PROPRIETARY MATERIAL. 2007 The McGraw-Hill Companies, Inc. All rights reserved. No part of this Manual may be displayed, reproduced or distributed in any form or by any means, without the prior written permission of the publisher, or used beyond the limited distribution to teachers and educators permitted by McGraw-Hill for their individual course preparation. If you are a student using this Manual, you are using it without permission.Chapter 3, Problem 8. Using nodal analysis, find v0 in the circuit in Fig. 3.57.Figure 3.57Chapter 3, Solution 83i1v1 i2i35+V03V 2+1+ 4V0 Butv1 v1 3 v1 4 v 0 + + =0 5 1 5 2 8 v 0 = v1 so that v1 + 5v1 - 15 + v1 - v1 = 0 5 5 or v1 = 15x5/(27) = 2.778 V, therefore vo = 2v1/5 = 1.1111 Vi1 + i2 + i3 = 0PROPRIETARY MATERIAL. 2007 The McGraw-Hill Companies, Inc. All rights reserved. No part of this Manual may be displayed, reproduced or distributed in any form or by any means, without the prior written permission of the publisher, or used beyond the limited distribution to teachers and educators permitted by McGraw-Hill for their individual course preparation. If you are a student using this Manual, you are using it without permission.Chapter 3, Problem 9. Determine Ib in the circuit in Fig. 3.58 using nodal analysis. 60 Ib Ib 250 + 24 V+ _50 150 Figure 3.58 For Prob. 3.9.Chapter 3, Solution 9 Let V1 be the unknown node voltage to the right of the 250- resistor. Let the ground reference be placed at the bottom of the 50- resistor. This leads to the following nodal equation:V1 24 V1 0 V1 60I b 0 =0 + + 250 50 150 simplifying we get 3V1 72 + 15V1 + 5V1 300I b = 0 But I b =24 V1 . Substituting this into the nodal equation leads to 25024.2V1 100.8 = 0 or V1 = 4.165 V.Thus, Ib = (24 4.165)/250 = 79.34 mA.PROPRIETARY MATERIAL. 2007 The McGraw-Hill Companies, Inc. 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No part of this Manual may be displayed, reproduced or distributed in any form or by any means, without the prior written permission of the publisher, or used beyond the limited distribution to teachers and educators permitted by McGraw-Hill for their individual course preparation. If you are a student using this Manual, you are using it without permission.Chapter 3, Problem 12.Using nodal analysis, determine Vo in the circuit in Fig. 3.61. 10 Ix 30 V + _ 2 5 4 Ix 1+ Vo _Figure 3.61 For Prob. 3.12.PROPRIETARY MATERIAL. 2007 The McGraw-Hill Companies, Inc. All rights reserved. No part of this Manual may be displayed, reproduced or distributed in any form or by any means, without the prior written permission of the publisher, or used beyond the limited distribution to teachers and educators permitted by McGraw-Hill for their individual course preparation. If you are a student using this Manual, you are using it without permission.Chapter 3, Solution 12There are two unknown nodes, as shown in the circuit below.10 V11Vo30 V+ _24 Ix5At node 1,V1 30 V1 0 V1 Vo =0 + + 10 2 1 16V1 10Vo = 30(1)At node o,Vo V1 V 0 =0 4I x + o 1 5 5V1 + 6Vo 20I x = 0 But Ix = V1/2. Substituting this in (2) leads to15V1 + 6Vo = 0 or V1 = 0.4Vo(2)(3)Substituting (3) into 1, 16(0.4Vo) 10Vo = 30 or Vo = 8.333 V.PROPRIETARY MATERIAL. 2007 The McGraw-Hill Companies, Inc. All rights reserved. No part of this Manual may be displayed, reproduced or distributed in any formPage 21 circuit theory chapter 9b sinusoidal steady-state : nodal analysis, mesh analysis, thevenin, etc copyright © the mcgraw-hill companies, inc. permission required for reproduction...chapter 7, problem 1. in the circuit shown in fig. 7.81 v(t ) = 56e −200t v, t > 0 i(t ) = 8e −200t ma, t>0 (a) find the values of r and c. (b) calculate the time...chapter 9, problem 1. given the sinusoidal voltage v(t) = 50 cos (30t + 10 o ) v, find: (a) the amplitude v m ,(b) the period t, (c) the frequency f, and (d) v(t) at t =...chapter 10, problem 1. determine i in the circuit of fig. 10.50. figure 10.50 for prob. 10.1. chapter 10, solution 1. we first determine the input impedance. 1h →...chapter 3, problem 1. determine ix in the circuit shown in fig. 3.50 using nodal analysis. 1 kΩ 4 kΩ + _ ix 2 kΩ + _ 9 v 6 v figure 3.50 for prob. 3.1. chapter 3, solution...chapter 3, problem 1. determine ix in the circuit shown in fig. 3.50 using nodal analysis. 1 kΩ ix 9v + _ 2 kΩ + _ 6v 4 kΩ figure 3.50 for prob. 3.1. chapter 3, solution...chapter 4, problem 1. calculate the current io in the circuit of fig. 4.69. what does this current become when the input voltage is raised to 10 v? figure 4.69 chapter 4,...chapter 3, problem 1. determine ix in the circuit shown in fig. 3.50 using nodal analysis. 1 kΩ ix 9v + _ 2 kΩ + _ 6v 4 kΩ figure 3.50 for prob. 3.1. chapter 3, solution...sol u t i on sol u t i on chapter 1, solution 1 (a)q = 6.482x10 17 x [-1.602x10 -19 c] = -0.10384 c (b) q = 1. 24x10 18 x [-1.602x10 -19 c] = -0.19865 c (c) q = 2.46x10 19...fundamentals of electric circuits fift h edition charles k alexander matthew n o sadiku fundam entals of electric c ircuits fifth edition alexander sadiku with its objective...task 1(a). a1. mesh analysis. calculation convert to phasor : · 5 sin 5t = 5∟0° · f = = = -j1 · 3h = jl = j(5)(3) = j15 mesh 1 : · (3 – j1) i1 – (- j1) i2 = 5∟0°...1 alexander-sadiku fundamentals of electric circuits chapter 11 ac power analysis- apparent power and power factor 2 ac power analysis chapter 11 113 effective or rms value...1. proprietary material. © 2007 the mcgraw-hill companies, inc. all rights reserved. no part of this manual may be displayed, reproduced or distributed in any form or by...alexander-sadiku fundamentals of electric circuits chapter 13 magnetically coupled circuits copyright © the mcgraw-hill companies, inc. permission required for reproduction...* eeeb123 circuit analysis 2 chapter 13 magnetically coupled circuits materials from fundamentals of electric circuits (4th edition), alexander & sadiku, mcgraw-hill...chapter 1, solution 1 (a) q = 6.482x10 17 x [-1.602x10 -19 c] = -0.10384 c (b) q = 1. 24x10 18 x [-1.602x10 -19 c] = -0.19865 c (c) q = 2.46x10 19 x [-1.602x10 -19 c] = -3.941...8/10/2019 fundamentos de circuitos eltricos - (alexander & sadiku) 1/8668/10/2019 fundamentos de circuitos eltricos - (alexander & sadiku) 2/8668/10/2019 fundamentos...slide 11 alexander-sadiku fundamentals of electric circuits chapter 6 capacitors and inductors copyright © the mcgraw-hill companies, inc. permission required for reproduction...slide 11 alexander-sadiku fundamentals of electric circuits chapter 14 frequency response copyright © the mcgraw-hill companies, inc. permission required for reproduction...

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