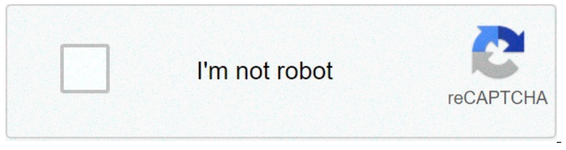

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(b) 2 (t) = 12 sin (377t + 45) V. Give the Answers in both Domains Time and Frequency.2 + I (T) (t) Figure P8.5irwin, basic design circuit analysis, 11 / E 1 Chapter 8: AC Problem of stationary status analysis 8.6 Solution: 8.6 Calculate The current in the condenser shown in fig. P8.6 If the voltage input is (a) 1 (t) = 10 so (377t 30) V. (b) 2 (t) = 12 sin (377t + 60) See the answers in both times and frequency domains. (t) i (t) c = 1 f + figure p8.6irwin, analysis of the basic engineering circuit, 11 / and 1 chapter 8: ac problem of stationary status analysis 8.7 solution: 8.7 Determine the phase angles with whose 1 (T) Leads i1 (t) and 1 (t) leads i2 (t), where 1 (t) = 4 sin (377t + 25) v i1 (t) = 0.05 cos (377t 20) to i2 (T) = 0.1 sin (377t + 45) airwin, basic design circuit analysis, 11 / and 1 chapter 8: AC Problem of stationary status analysis 8.8 Solution: 8.8 Find the impedance of the frequency domain. Z, as shown in fig. P8.8.z 3 j4 figure p8.8irwin, analysis of the basic engineering circuit, 11 / and 1 chapter 8: ac problem of stationary status analysis 8.9 Solution: 8.9 Calculate the current in 'inductor shown in fig. P8.9 If the voltage input is (a) 1 (t) = 10 cos (377t + 45) v (b) 2 (t) = 5 sin (377t 90) v provide the answers in both domains of Time and frequency .i (t) L = 1 MH + (t) Figure P8.9IRWIN, analysis of the basic engineering circuit, 11 / E 1 Chapter 8: AC Problem of stationary status analysis 8.10 Solution: 8.10 Find l 'Domain frequency impedance, Z, in the network in fig. P8.10.j1 J2 1 Zfigure P8.10irwin, basic design circuit analysis, 11 / and 1 Chapter 8: AC Problem of stationary status analysis 8.11 Solution: 8.11 Find Z in the network in Fig. P8.11.1 2 2 2 J1 J2 J2 Zfigure P8.11irwin, analysis of the basic engineering circuit, 11 / and 1 Chapter 8: AC Problem of stationary status analysis 8.12 Solution: 8.12 Find impedance, Z, shown in fig. 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P8.18 at a frequency of 60 Hz.Z 10 MH 500 F4 2 Figure P8.18IRWIN, Anal ISI of the basic engineering circuit, 11 / and 1 Chapter 8: Analysis of the steady state analysis AC 8.19 Solution: 8.19 Find the impedance of the frequency domain, Z, shown in fig. P8.19.Z1 4 2 J2 J4 J2 J1 J1 6 Figure P8.19IRWIN, analysis of the basic engineering circuit, 11 / E 1 Chapter 8: AC Problem of stationary status analysis 8.20 Solution: 8.20 in shown in fig. P8.20, determine the value of the inductance so that the current is in phase with the source voltage. + 12 COS (1000T + 75) V100 F4 Lfigure P8.20IRWIN, basic engineering circuit analysis, 11 / E 1 Chapter 8: AC Problem of stationary status analysis 8.21 Solution: 8.21 Find the value of C in the circuit shown in Fig. P8.21 so that Z is purely resistive at a frequency of 60 Hz.Z C1 5 MHFIGURA P8.21IRWIN, analysis of the basic design circuit, 11 / and 1 Chapter 8: AC STATE-ST ATE ANALYSIS Problem 8.22 Solution: 8.22 IL IL of the network in Fig. P8.22 is located to be purely real to F = 400 Hz. What is the value of C? 6 10 MHCZfigure P8.22IRWIN, analysis of the basic engineering circuit, 11 / E 1 Chapter 8: AC Problem of the stationary status analysis 8.23 â €

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