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Solution: (a)From Example 1–4, I˜= Ve s R+ jwL = 150 400+ j105 3 10 3 = 150 400+ j300 =0:3 36:9 (A): (b) i(t)=Re[eIejwt] =Re[0:3e j36:9 ej105t] =0:3cos(105t 36:9) (A): Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2019 Prentice Hall

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Solution: Let y(t)=x(a(t T))for a time-scaling transformation with factor aand a time-shift

transformation with a time delay of T. Since x(t)=4t, we have y(t)=4[a(t T)]=4at 4aT.

Signals and Systems: Theory and Applications

Solution: (a) The green wave has an amplitude of 5 V and a period T =8 s. Its peak occurs earlier than that of the red wave; hence, its constant phase angle is positive relative to that of the red wave. A full cycle of 8 s corresponds to 2p in phase. The green wave crosses the time axis 1 s sooner than the red wave.

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Chapter 3: Vector Analysis 3.1 Vector Addition and Subtraction 3.2 Gradient 3.3 Divergence 3.4 Curl Chapter 4: Electrostatics 4.1 Fields due to Charges 4.2 Charges in Adjacent Dielectrics 4.3 Charges above a Conducting Plane 4.4 Charges near a Conducting Sphere Chapter 5: Magnetostatics 5.1 Electron Motion in Static Fields

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Solution: If positive current is flowing from terminal a to terminal b of a resistor, then terminal a is at a higher potential than terminal b making u ab =(u a u b) positive. Fawwaz T. Ulaby, Michel M. Maharbiz and Cynthia M. Furse Circuit Analysis and Design

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Chapter 4 Sections 4-2: Charge and Current Distributions Problem 4.1 A cube 2 m on a side is located in the first octant in a Cartesian coordinate system, with one of its corners at the origin. Find the total charge contained in the cube if the charge density is given by ρv xy2e 2z (mC/m3). Solution: For the cube shown in Fig. P4.1 ...

Chapter 4: Electrostatics

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Table 4-4: Correspondence between binary sequence and decimal value for a 4-bit digital signal and output of a DAC with G= 0:5. Table 4-5: List of Multisim components for the circuit in Fig. 4-35. Table 4-6: Components for the circuit in Fig. 4-37. Fawwaz T. Ulaby, Michel M. Maharbiz and Cynthia M. Furse Circuits c 2015 National Technology Press

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