

# Fundamentals Of Applied Electromagnetics Solutions Manual

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## Fundamentals Of Applied Electromagnetics Solutions

Solution:  $x \hat{a}_3$   $F_e 31$   $F_e 32$   $q_1$   $q_2$   $y$   $F_e 3 = F_e 31 + F_e 32$  Forces  $F_e 31$  and  $F_e 32$  are equal in magnitude, with  $F_e 31$  pointing along  $45^\circ$  above the  $x$  axis and  $F_e 32$  pointing along  $45^\circ$  below the  $x$  axis. The  $\hat{y}$  components cancel. Hence,  $F_e 3$  is along  $+x^\wedge$ . Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2019 Prentice Hall

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Write the four fundamental forces of nature and their relative strengths. (1) The nuclear force, which is the strongest but only relevant on subatomic scales. (2) The electromagnetic force, which occurs between charged particles on microscopic scales. It is times as strong as the nuclear force.

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(ii) Rigorous Solution: By expanding the second term in (1.2), we have  $A \cos \omega t + B(\cos \omega t \cos \theta_0 \sin \omega t \sin \theta_0) = 0$ ; Fawwaz T. Ulaby, Eric Michielssen, and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2010 Prentice Hall

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Solution:  $Z_L - Z_0$   $Z_L + Z_0 - j30 - 150 = = 1 \angle -157.4^\circ - j30 + 150$   $\Gamma =$  Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2015 Prentice Hall Exercise 2.9 Use Module 2.4 to generate the voltage and current standing-wave patterns for a 50- $\Omega$  line of length

$1.5\lambda$ , terminated in an inductance with  $Z_L = j140 \Omega$ .

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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, a full cycle of 8 s corresponds to  $2\pi$  in phase. Hence, its phase angle is

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