

Fundamentals Of Applied Electromagnetics Solutions

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 Solution: $x^3 Fe^{31} Fe^{32} q_1 q_2 y F e^3 = F e^{31} + F e^{32}$ Forces $F e^{31}$ and $F e^{32}$ are equal in magnitude, with $F e^{31}$ pointing along 45 above the x axis and $F e^{32}$ pointing along 45 below the x axis. The \hat{y} components cancel. Hence, $F e^3$ is along $+x \hat{}$. 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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 Solution: (a) $100eaz=10 \ 100e0:5z=10 \ e0:5z=0:1 \ 0:5z=ln0:1 \ = \ 2:3 \ z=4:6 \ m:$ (b) $100e0:5z=1 \ z=ln0:01 \ 0:5=9:2 \ m:$ (c) $100e0:5z=106. \ z=ln108. \ 0:5=37 \ m:$ Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2015 Prentice Hall. Exercise 1.7 Express the following complex functions in polar form: z.

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 Solution: (a) We start by converting the given expression into a cosine function of the form given by (1.17): $y(x;t)=2\cos 4\pi t+10\pi x^2$ (cm): Since the coefficients of t and x both have the same sign, the wave is traveling in the negative x-direction. (b) From the cosine expression, $f. \ 0=p=2$.

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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, its constant phase angle is positive relative to that of the red wave. A full cycle of 8 s corresponds to 2 in phase. The green wave crosses the time axis 1 s sooner than the red wave.

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Modern technology is rapidly developing and for this reason future engineers need to acquire advanced knowledge in science and technology, including electromagnetic phenomena. This book is a contemporary text of a one-semester course for junior electrical engineering students. It covers a broad spectrum of electromagnetic phenomena such as, surface waves, plasmas, photonic crystals, negative refraction as well as related materials including superconductors. In addition, the text brings together electromagnetism and optics as the majority of texts discuss electromagnetism disconnected from optics. In contrast, in this book both are discussed. Seven labs have been developed to accompany the material of the book.

Guru and Hizirolgu have produced an accessible and user-friendly text on electromagnetics that will appeal to both students and professors teaching this course. This lively book includes many worked examples and problems in every chapter, as well as chapter summaries and background revision material where appropriate. The book introduces undergraduate students to the basic concepts of electrostatic and magnetostatic fields, before moving on to cover Maxwell's equations, propagation, transmission and radiation. Chapters on the Finite Element and Finite Difference method, and a detailed appendix on the Smith chart are additional enhancements. MathCad code for many examples in the book and a comprehensive solutions set are available at www.cambridge.org/9780521830164.

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