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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) $100e0:5z=1$ $z= \ln0:01$ $0:5$~~

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=9:2 m: (c) $100e^{0.5z}=106$. $z = \ln 108$. $0.5 = 37$ m: Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2019 Prentice Hall. Exercise 1.9 Express the following complex functions in polar form: z .

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Solution: (a) $100e^{az}=10$ $100e^{0.5z}=10$ $e^{0.5z}=0.1$ $0.5z=\ln 0.1 = -2.3$ $z=-4.6$ m: (b) $100e^{0.5z}=1$ $z = \ln 0.01$ $0.5 = -9.2$ m: (c) $100e^{0.5z}=106$. $z = \ln 108$. $0.5 = 37$ 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): $y(x;t)=2\cos 4\pi t+10\pi x$ p^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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Instructor's Solutions Manual (Download only) for Fundamentals of Applied Electromagnetics, 8th Edition. Fawwaz T. Ulaby, University of Michigan. Umberto Ravaioli ©2020 | Pearson Format On-line Supplement ISBN-13: 9780135205204: Availability: Live. Overview; Order; Overview. Description. For access to the Instructor Resources, please reach out ...

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Fundamentals of Applied Electromagnetics Solution: (a) From Example 1-4, $\tilde{I} = \tilde{V}_e / s R + j\omega L = 150 \angle 400^\circ + j105 \angle 3 \cdot 10^3 = 150 \angle 400^\circ + j300 = 0.3 \angle 36.9^\circ$ (A); (b) $i(t) = \text{Re}[e^{j\omega t}] = \text{Re}[0.3e^{j36.9^\circ} e^{j105t}] = 0.3 \cos(105t \dots$

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Selected Publications Recent Articles. Ulaby, F. T., Y. Oh, and K. Sarabandi, "Relative Dielectric Constant of Vegetation," IEEE GRSS/RSCL, 2018. Ulaby, F. T., Y ...

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