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Hangout Session #1 for Applied Electromagnetics for Engineers

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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 Ravaioi, 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) 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, $f_0 = \nu = 2$.

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Fundamentals of Applied Electromagnetics Solution: (a) From Example 1-4, $\Gamma = \frac{V_e}{s} R + j\omega L = 150 \text{ } 400 + j105 \text{ } 3 \text{ } 10 \text{ } 3 = 150 \text{ } 400 + j300 = 0:3 \text{ } 36:9 \text{ } (A)$: (b) $i(t) = \text{Re}[e^{j\omega t}] = \text{Re}[0:3e^{j36:9} e^{j105t}] = 0:3\cos(105t...$

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

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Covering both statics and dynamics, this book uses many tools to facilitate understanding of EM concepts and to demonstrate their relevance to modern technology. It also provides overviews of fundamental and sophisticated technologies. It is useful for courses in Electromagnetics offered in Electrical Engineering departments and Applied Physics.

Fundamentals of Applied Electromagnetics is intended for use in one- or two-semester courses in electromagnetics. It also serves as a reference for engineers. Widely acclaimed both in the U.S. and abroad, this authoritative text bridges the gap between circuits and new electromagnetics material. Ulaby begins coverage with transmission lines, leading students from familiar concepts into more advanced topics and applications. A user-friendly approach, full-color figures and images, and a set of interactive simulations will help readers understand the concepts presented.

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Guru and Hiziroglu 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.

An accessible, yet mathematically rigorous, one-semester textbook, engaging students through use of problems, examples, and applications.

This comprehensive revision begins with a review of static electric and magnetic fields, providing a wealth of results useful for static and time-dependent fields problems in which the size of the device is small compared with a wavelength. Some of the static results such as inductance of transmission lines calculations can be used for microwave frequencies. Familiarity with vector operations, including divergence and curl, are developed in context in the chapters on statics. Packed with useful derivations and applications.

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