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Electromagnetics is the subject having to do with electromagnetic fields. An electromagnetic field is made up of interdependent electric and magnetic fields, which is the case when the fields are varying with time, that is, they are dynamic. An electric field

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Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied

Electromagnetics c 2019 Prentice Hall

Exercise 1.4 The wave shown in red in

Fig. E1.4 is given by  $u = 5\cos 2\pi t = 8$ . Of

the following four equations: (1)  $u$

$= 5\cos(2\pi t = 8 \text{ } p=4)$ , (2)  $u$

$= 5\cos(2\pi t = 8 + p=4)$ , (3)  $u = 5\cos(2\pi t = 8$

$p=4)$ , (4)  $u = 5\sin 2\pi t = 8$ , (a) which

equation applies to the green wave?

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may change with the passing of time

owing to the requirements of the

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with the evolution of the technologies of electrical and computer engineering.

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Varying Electromagnetic Fields .

References: - Engineering

Electromagnetics, by U. S. Inan and A. S.

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Fundamentals of ELECTROMAGNETICS  
QUESTION 1 An electric field propagates through a cylindrical conductor of radius  $r = 4$  m. The cylinder is placed along the z-axis such that the length coincides

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with 0 SZ S6 m.

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