

5-1. From (3-17) $\Rightarrow \underline{A} = \hat{a}_\theta A_\theta(r, \theta) = \hat{a}_\theta j \frac{k \mu_0 a^2 I_0 \sin \theta}{4r} \left[1 + \frac{1}{jkr} \right] e^{jkr}$

(a) Using (3-2a) and (VI-26)

$$\underline{H} = \frac{1}{\mu} \nabla \times \underline{A} = \frac{1}{\mu} \left\{ \hat{a}_r \frac{1}{r \sin \theta} \left[\frac{\partial}{\partial \theta} (A_\theta \sin \theta) - \frac{\partial A_\phi}{\partial \phi} \right] + \hat{a}_\theta \frac{1}{r} \left[\sin \theta \frac{\partial A_\phi}{\partial \phi} - \frac{\partial}{\partial r} (r A_\theta) \right] + \hat{a}_\phi \frac{1}{r} \left[\frac{\partial}{\partial r} (r A_\theta) - \frac{\partial A_\phi}{\partial \theta} \right] \right\}$$

which reduces to

$$\underline{H} = \frac{1}{\mu} \left\{ \hat{a}_r \frac{1}{r \sin \theta} \frac{\partial}{\partial \theta} (A_\theta \sin \theta) - \hat{a}_\theta \frac{1}{r} \frac{\partial}{\partial r} (r A_\theta) \right\}$$

Using the A_θ from above

$$\underline{H} = \frac{1}{\mu} \left\{ \hat{a}_r \frac{1}{r \sin \theta} \frac{\partial}{\partial \theta} \left[j \frac{k \mu_0 a^2 I_0 \sin \theta}{4r} \left(1 + \frac{1}{jkr} \right) e^{jkr} \right] - \hat{a}_\theta \frac{1}{r} \frac{\partial}{\partial r} \left[j \frac{k \mu_0 a^2 I_0 \sin \theta}{4} \left(1 + \frac{1}{jkr} \right) e^{jkr} \right] \right\}$$

which can be written as

$$H_r = j \frac{k a^2 I_0 \cos \theta}{2 r^2} \left(1 + \frac{1}{jkr} \right) e^{jkr}$$

$$H_\theta = - \frac{(ka)^2 I_0 \sin \theta}{4r} \left[1 + \frac{1}{jkr} - \left(\frac{1}{kr} \right)^2 \right] e^{jkr}$$

$$H_\phi = 0$$

(b) Using Equation (3-10) with $\underline{J} = 0$ along with the \underline{H} -field components from above

$$\underline{E} = \frac{1}{j\omega \epsilon} \nabla \times \underline{H} = \frac{1}{j\omega \epsilon} \left\{ \hat{a}_r (0) + \hat{a}_\theta (0) + \hat{a}_\phi \frac{1}{r} \left[\frac{\partial}{\partial r} (r H_\theta) - \frac{\partial H_r}{\partial \theta} \right] \right\}$$

which reduces to

$$E_r = 0$$

$$E_\theta = 0$$

$$E_\phi = \eta \frac{(ka)^2 I_0 \sin \theta}{4r} \left[1 + \frac{1}{jkr} \right] e^{jkr}$$

The same expressions can be obtained using (3-15) with the A_θ from part a.

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Christian Drosten



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Pattanaik, Balachandra, Saravanan, M., Saravanakumar, U., T R, Ganesh Babu, 2022-03-11 In internet of things IoT applications wireless connectivity is a key factor particularly those that need to be in transition or where wired communication is not effective or practicable For top notch connectivity of the Narrowband IoT NB IoT standard the 900MHz frequency is generally used by most of the vendors The radiation quality not only depends on the antenna geometry but on immediate surroundings Additionally the IoT product itself and the user of the product can strongly affect the resulting radiation pattern and other characteristics of the antenna On the other hand a suitable antenna should also have high efficiency and adequate bandwidth covering the desired frequency range To take these effects into consideration the whole IoT product must be included in the antenna simulations Antenna Design for Narrowband IoT Design Analysis and Applications provides the antenna design concept for narrowband internet of things applications performs a detailed analysis of the antenna and discusses the various antenna design concepts and structures Covering a range of topics such as antenna

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