

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  $A_\theta$  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  $A_\theta$  from part a.

# Solutions Manual Balanis Antenna Theory 2nd

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Constantine A Balanis received his BSEE degree from the Virginia Tech in 1964 his MEE degree from the University of Virginia in 1966 his PhD in Electrical Engineering from The Ohio State University in 1969 and an Honorary Doctorate from the Aristotle University of Thessaloniki in 2004 From 1964 to 1970 he was with the NASA Langley Research Center in Hampton VA and from 1970 to 1983 he was with the Department of Electrical Engineering of West Virginia University In 1983 he joined Arizona State University and is now Regents Professor of Electrical Engineering Dr Balanis is also a life fellow of the IEEE

*Engineering Education* ,1982      Handbook of Smart Antennas for RFID Systems Nemaï Chandra Karmakar,2011-02-25 The Handbook of Smart Antennas for RFID Systems is a single comprehensive reference on the smart antenna technologies applied to RFID This book will provide a timely reference book for researchers and students in the areas of both smart antennas and RFID technologies It is the first book to combine two of the most important wireless technologies together in one book The handbook will feature chapters by leading experts in both academia and industry offering an in depth description of terminologies and concepts related to smart antennas in various RFID systems applications Some topics are adaptive beamforming for RFID smart antennas multiuser interference suppression in RFID tag reading phased array antennas for RFID applications smart antennas in wireless systems and market analysis and case studies of RFID smart antennas This handbook will cover the latest achievements in the designs and applications for smart antennas for RFID as well as the basic concepts terms protocols systems architectures and case studies in smart antennas for RFID readers and tags

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**Proceedings of International conference on Antenna Technologies**, 2005 [Antenna Design for Narrowband IoT: Design, Analysis, and Applications](#) 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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## **Table of Contents Solutions Manual Balanis Antenna Theory 2nd**

1. Understanding the eBook Solutions Manual Balanis Antenna Theory 2nd
  - The Rise of Digital Reading Solutions Manual Balanis Antenna Theory 2nd
  - Advantages of eBooks Over Traditional Books
2. Identifying Solutions Manual Balanis Antenna Theory 2nd
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Solutions Manual Balanis Antenna Theory 2nd
  - User-Friendly Interface
4. Exploring eBook Recommendations from Solutions Manual Balanis Antenna Theory 2nd



- Personalized Recommendations
  - Solutions Manual Balanis Antenna Theory 2nd User Reviews and Ratings
  - Solutions Manual Balanis Antenna Theory 2nd and Bestseller Lists
5. Accessing Solutions Manual Balanis Antenna Theory 2nd Free and Paid eBooks
    - Solutions Manual Balanis Antenna Theory 2nd Public Domain eBooks
    - Solutions Manual Balanis Antenna Theory 2nd eBook Subscription Services
    - Solutions Manual Balanis Antenna Theory 2nd Budget-Friendly Options
  6. Navigating Solutions Manual Balanis Antenna Theory 2nd eBook Formats
    - ePub, PDF, MOBI, and More
    - Solutions Manual Balanis Antenna Theory 2nd Compatibility with Devices
    - Solutions Manual Balanis Antenna Theory 2nd Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Solutions Manual Balanis Antenna Theory 2nd
    - Highlighting and Note-Taking Solutions Manual Balanis Antenna Theory 2nd
    - Interactive Elements Solutions Manual Balanis Antenna Theory 2nd
  8. Staying Engaged with Solutions Manual Balanis Antenna Theory 2nd
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Solutions Manual Balanis Antenna Theory 2nd
  9. Balancing eBooks and Physical Books Solutions Manual Balanis Antenna Theory 2nd
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Solutions Manual Balanis Antenna Theory 2nd
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Solutions Manual Balanis Antenna Theory 2nd
    - Setting Reading Goals Solutions Manual Balanis Antenna Theory 2nd
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Solutions Manual Balanis Antenna Theory 2nd

- Fact-Checking eBook Content of Solutions Manual Balanis Antenna Theory 2nd
- Distinguishing Credible Sources

### 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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