

From Eq.(2.25), we can obtain the Fourier transform of ψ as

$$\psi = \begin{cases} f^+(k_x, k_y) e^{k_y y} & (y \geq 0) \\ f^-(k_x, k_y) e^{k_y y} & (y \leq 0) \end{cases} \quad (2.26)$$

Then, in order to satisfy the radiation condition at $y \rightarrow \pm\infty$, we must choose

$$k_y^- = -k_y^+ = \begin{cases} j\sqrt{k_x^2 + k_y^2 - k^2} & (k \leq \sqrt{k_x^2 + k_y^2}) \\ -\sqrt{k^2 - k_x^2 - k_y^2} & (k \geq \sqrt{k_x^2 + k_y^2}) \end{cases} \quad (2.27)$$

As in the above aperture radiation example, we make the Fourier transform of the field components in Eq.(2.19) after setting $A_{z-} = 0$ and $A_z = \psi$ and obtain

$$\hat{H}_x^+ = \frac{j k_y^2}{\mu_0} \psi^+, \quad \hat{E}_z^+ = -\frac{k_x k_y}{j \omega \mu_0 \epsilon_0} \psi^+, \quad (2.28a)$$

$$\hat{H}_x^- = -\frac{j k_x}{\mu_0} \psi^-, \quad \hat{E}_z^- = -\frac{k_x^2 k_y}{j \omega \mu_0 \epsilon_0} \psi^-, \quad (2.28b)$$

$$\hat{H}_y^+ = 0, \quad \hat{E}_y^+ = \frac{1}{j \omega \mu_0 \epsilon_0} [k^2 - k_y^2] \psi^+. \quad (2.28c)$$

According to the continuity of the tangential electric fields, i.e.,

$$E_x^+|_{y=0} = E_x^-|_{y=0} \quad \text{and} \quad E_z^+|_{y=0} = E_z^-|_{y=0}, \quad \text{we have}$$

$$f^+(k_x, k_y) = f^-(k_x, k_y) = f(k_x, k_y). \quad (2.29)$$

Also, according to the boundary conditions of the magnetic fields at $y=0$, i.e., $H_x^+ - H_x^- = -J_x$ or $\hat{H}_x^+ - \hat{H}_x^- = -\hat{J}_x$ when $y=0$, by using Eq.(2.26) and considering Eqs.(2.25) and (2.27), $f(k_x, k_y)$ can be determined by

$$f(k_x, k_y) = \frac{j \mu_0}{2 k_y^+} \hat{J}_x, \quad (2.30)$$

Advanced Electromagnetic Theory

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Advanced Electromagnetic Theory:

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Lessons in Electricity and Magnetism William Suddards Franklin, Barry MacNutt, 1919. *Balanis' Advanced Engineering Electromagnetics* Constantine A. Balanis, 2024-01-31. *Balanis Advanced Engineering Electromagnetics*. The latest edition of the foundational guide to advanced electromagnetics. Balanis third edition of *Advanced Engineering Electromagnetics*, a global best seller for over 30 years, covers the advanced knowledge engineers involved in electromagnetics need to know, particularly as the topic relates to the fast moving, continuously evolving and rapidly expanding field of wireless communications. The immense interest in wireless communications and the expected increase in wireless communications systems projects, antennas, microwaves and wireless communications points to an increase in the number of engineers needed to specialize in this field. Highlights of the 3rd Edition include: A new chapter on Artificial Impedance Surfaces (AIS) contains material on current and advanced EM technologies including the exciting and fascinating topic of metasurfaces for Control and broadband RCS reduction using checkerboard designs. Optimization of antenna fundamental parameters such as input impedance, directivity, realized gain, amplitude radiation pattern. Leaky wave antennas using 1 D and 2 D polarization. Diverse holographic high impedance metasurfaces for antenna radiation control and optimization. Associated MATLAB programs for the design of checkerboard metasurfaces for RCS reduction and metasurface

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Bulletin Northeastern University (Boston, Mass.). Graduate School of Engineering, 1973

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Table of Contents Advanced Electromagnetic Theory

1. Understanding the eBook Advanced Electromagnetic Theory
 - The Rise of Digital Reading Advanced Electromagnetic Theory
 - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Electromagnetic Theory
 - 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 Advanced Electromagnetic Theory
 - User-Friendly Interface
4. Exploring eBook Recommendations from Advanced Electromagnetic Theory
 - Personalized Recommendations
 - Advanced Electromagnetic Theory User Reviews and Ratings
 - Advanced Electromagnetic Theory and Bestseller Lists

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