

Intensity of Light

Example Problem

- An electromagnetic wave has a frequency of 100. MHz and is traveling in a vacuum. The magnetic field is given by $\vec{B}(z, t) = (1.00 \times 10^{-8} \text{ T}) \cos(kz - \omega t) \hat{i}$
- a) Find the wavelength and the direction of propagation of this wave.
- b) Find the electric field vector $\vec{E}(z, t)$.
- c) Find the intensity of the wave.

Answers:

$$a) \lambda = 3.00 \text{ m}$$

$$b) \vec{E} = -(3.00 \text{ V/m}) \cos\left[\left(2.09 \text{ rad/m}\right)z - \left(6.28 \times 10^8 \text{ rad/s}\right)t\right] \hat{j}$$

$$c) \vec{S} = (23.87 \text{ W/m}^2) \cos^2\left[\left(2.09 \text{ rad/m}\right)z - \left(6.28 \times 10^8 \text{ rad/s}\right)t\right] \hat{k}$$

$$I = \langle \vec{S} \rangle = \frac{1}{2} (23.87 \text{ W/m}^2) = 11.9 \text{ mW/m}^2$$

Light Intensity Problems

**Cesar A. Sciammarella, Federico M.
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Table of Contents Light Intensity Problems

1. Understanding the eBook Light Intensity Problems
 - The Rise of Digital Reading Light Intensity Problems
 - Advantages of eBooks Over Traditional Books
2. Identifying Light Intensity Problems
 - 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 Light Intensity Problems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Light Intensity Problems
 - Personalized Recommendations
 - Light Intensity Problems User Reviews and Ratings
 - Light Intensity Problems and Bestseller Lists
5. Accessing Light Intensity Problems Free and Paid eBooks

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