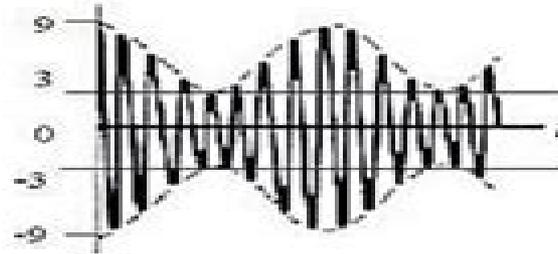


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Example Problems on Amplitude Modulation

Problem 1

A sinusoidally modulated ordinary AM waveform is shown below.



- (a) Determine the modulation index.
- (b) Calculate the transmission efficiency.
- (c) Determine the amplitude of the carrier which must be added to attain a modulation index of 0.3.

(a). Using $\begin{cases} s_{\max} = A_c(1 + m_a) \\ s_{\min} = A_c(1 - m_a) \end{cases} \quad \therefore A_c = 6 \quad ; \text{ the modulation index } m_a = \frac{1}{3}$

(b). $\mu = \frac{m_a^2}{2 + m_a^2} = \frac{1}{9}$

(c). Using $m_a = \frac{a_m}{A_c}$, the new required carrier amplitude $A_c' = 10$

So, the amplitude of the carrier should be added by 4 to achieve the 0.3 modulation index.

Problem 2

The efficiency μ of a single-tone AM signal is defined as the percentage of the total power carried by the sidebands, that is:

$$\mu = \frac{P_{\text{sidebands}}}{P_t} \times 100\%$$

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Table of Contents Amplitude Modulation Solved Problems

1. Understanding the eBook Amplitude Modulation Solved Problems
 - The Rise of Digital Reading Amplitude Modulation Solved Problems
 - Advantages of eBooks Over Traditional Books
2. Identifying Amplitude Modulation Solved 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 Amplitude Modulation Solved Problems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Amplitude Modulation Solved Problems
 - Personalized Recommendations
 - Amplitude Modulation Solved Problems User Reviews and Ratings
 - Amplitude Modulation Solved Problems and Bestseller Lists
5. Accessing Amplitude Modulation Solved Problems Free and Paid eBooks
 - Amplitude Modulation Solved Problems Public Domain eBooks
 - Amplitude Modulation Solved Problems eBook Subscription Services
 - Amplitude Modulation Solved Problems Budget-Friendly Options

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