

Pulse-width modulation (PWM), as it applies to motor control, is a way of delivering energy through a succession of pulses rather than a continuously varying (analog) signal. By increasing or decreasing pulse width, the controller regulates energy flow to the motor shaft. The motor's own inductance acts like a filter, storing energy during the "on" cycle while releasing it at a rate corresponding to the input or reference signal. In other

words, energy flows into the load not so much the switching frequency, but at the reference frequency.

PWM is somewhat like pushing a playground-style merry-go-round. The energy of each push is stored in the inertia of the heavy platform, which accelerates gradually with harder, more frequent, or longer-lasting pushes. The riders receive the kinetic energy in a very different manner than how it's applied.

questions & answers

Q: What's the main advantage?

A: Efficiency. PWM amplifiers run cooler than standard linear power amps, requiring substantially less heat sink mass. At about 90% efficiency, PWM makes electromagnetic motion feasible at power levels where hydraulics used to be the only option.

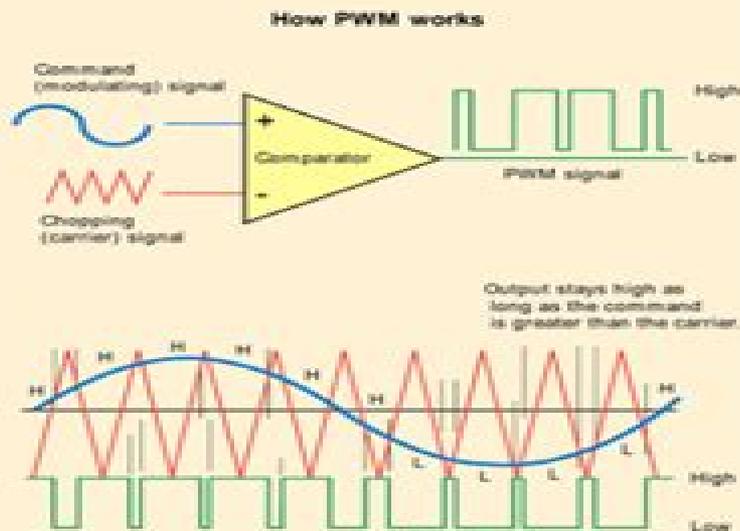
Q: What's the downside?

A: Nature doesn't like abrupt changes; high-current switching generates electromagnetic noise as well as voltage spikes. This calls for special measures like filtering, shielding, and the use of spike-hardened components.

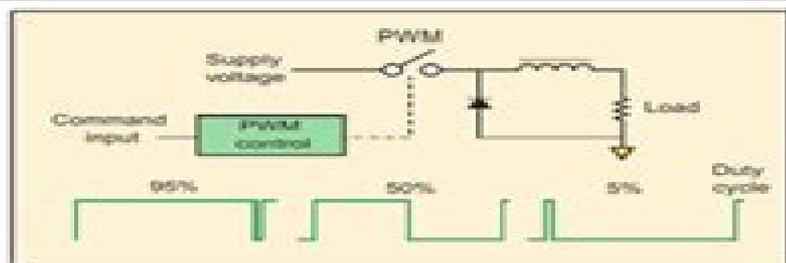
Q: What's the effect on bandwidth?

A: As a rule of thumb, the usable bandwidth of the command signal is about one decade (10X) below the switching frequency.

A simple comparator with a sawtooth carrier can turn a sinusoidal command into a pulse-width modulated output. In general, the larger the command signal, the wider the pulse.



Linear amplifiers vary the resistance of a pass element to regulate power. Efficiency is fine at the extremes — losses are minimal when $R = 0$ or ∞ — but suffers elsewhere, bottoming out at midrange ($R = R_L$) where the amount of energy wasted as heat in the amplifier equals that delivered to the load.



The output of a PWM amplifier is either zero or tied to the supply voltage, holding losses to a minimum. As the duty cycle changes to deliver more or less power, efficiency remains essentially constant.

Pulse Width Modulation Objective Questions With Answers

Karin Nielsen-Saines



Pulse Width Modulation Objective Questions With Answers:

Decoding **Pulse Width Modulation Objective Questions With Answers**: Revealing the Captivating Potential of Verbal Expression

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Table of Contents Pulse Width Modulation Objective Questions With Answers

1. Understanding the eBook Pulse Width Modulation Objective Questions With Answers
 - The Rise of Digital Reading Pulse Width Modulation Objective Questions With Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Pulse Width Modulation Objective Questions With Answers
 - 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 Pulse Width Modulation Objective Questions With Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pulse Width Modulation Objective Questions With Answers
 - Personalized Recommendations

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

- 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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