

## Mechanical Formulas

$$\text{Torque in lb.ft.} = \frac{\text{HP} \times 5250}{\text{rpm}} \quad \text{HP} = \frac{\text{Torque} \times \text{rpm}}{5250} \quad \text{rpm} = \frac{120 \times \text{Frequency}}{\text{No. of Poles}}$$

## Temperature Conversion

$$\begin{aligned} \text{Deg C} &= (\text{Deg F} - 32) \times 5/9 \\ \text{Deg F} &= (\text{Deg C} \times 9/5) + 32 \end{aligned}$$

## High Inertia Loads

$$\begin{aligned} t &= \frac{WK^2 \times \text{rpm}}{308 \times T \text{ av.}} & WK^2 &= \text{inertia in lb.ft.}^2 \\ & & t &= \text{accelerating time in sec.} \\ T &= \frac{WK^2 \times \text{rpm}}{308 \times t} & T &= \text{Av. accelerating torque} \\ & & & \text{lb.ft.} \end{aligned}$$

$$\text{inertia reflected to motor} = \text{Load Inertia} \left( \frac{\text{Load rpm}}{\text{Motor rpm}} \right)^2$$

## Synchronous Speed, Frequency And Number Of Poles Of AC Motors

$$n_s = \frac{120 \times f}{P} \quad f = \frac{P \times n_s}{120} \quad P = \frac{120 \times f}{n_s}$$

## Relation Between Horsepower, Torque, And Speed

$$\text{HP} = \frac{T \times n}{5250} \quad T = \frac{5250 \text{ HP}}{n} \quad n = \frac{5250 \text{ HP}}{T}$$

# Motor Formulas And Calculations

**Albert A Gayle**



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## **Table of Contents Motor Formulas And Calculations**

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

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