

Simple Machines

Mechanical Advantage (MA)

$$IMA = \frac{D_E}{D_R} \qquad AMA = \frac{F_R}{F_E}$$

$$\% \text{ Efficiency} = \left(\frac{AMA}{IMA} \right) 100$$

IMA = Ideal Mechanical Advantage

AMA = Actual Mechanical Advantage

D_E = Effort Distance D_R = Resistance Distance

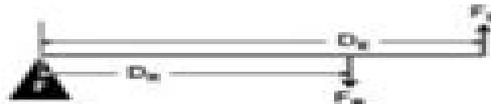
F_E = Effort Force F_R = Resistance Force

Lever

1st Class



2nd Class



3rd Class



Wheel and Axle

Effort at Axle



Effort at Wheel



Pulley Systems

IMA = Total number of strands of a single string supporting the resistance

$$IMA = \frac{D_E \text{ (string pulled)}}{D_R \text{ (resistance lifted)}}$$

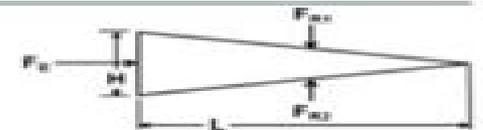
Inclined Plane

$$IMA = \frac{L \text{ (slope)}}{H}$$



Wedge

$$IMA = \frac{L \text{ (L to height)}}{H}$$



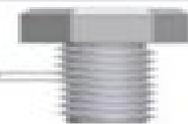
Screw

$$IMA = \frac{C}{\pi r H}$$

$$\text{Pitch} = \frac{1}{\text{TPI}}$$



Pitch



C = Circumference

r = radius

Pitch = distance between threads

TPI = Threads Per Inch

Compound Machines

$$MA_{\text{TOTAL}} = (MA_1) (MA_2) (MA_3) \dots$$

Gears; Sprockets with Chains; and Pulleys with Belts Ratios

$$GR = \frac{N_{\text{out}}}{N_{\text{in}}} = \frac{d_{\text{out}}}{d_{\text{in}}} = \frac{\omega_{\text{in}}}{\omega_{\text{out}}} = \frac{T_{\text{out}}}{T_{\text{in}}}$$

$$\frac{d_{\text{out}}}{d_{\text{in}}} = \frac{\omega_{\text{in}}}{\omega_{\text{out}}} = \frac{T_{\text{out}}}{T_{\text{in}}} \text{ (pulleys)}$$

Compound Gears

$$GR_{\text{TOTAL}} = \left(\frac{B}{A} \right) \left(\frac{D}{C} \right)$$



GR = Gear Ratio

ω_{in} = Angular Velocity - driver

ω_{out} = Angular Velocity - driven

N_{in} = Number of Teeth - driver

N_{out} = Number of Teeth - driven

d_{in} = Diameter - driver

d_{out} = Diameter - driven

T_{in} = Torque - driver

T_{out} = Torque - driven

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Table of Contents Civil Engineering Material Quantity Formulas

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

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