

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

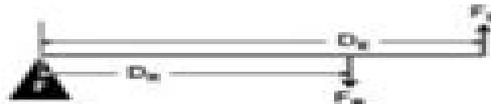
F_E = Effort Force F_R = Resistance Force

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

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

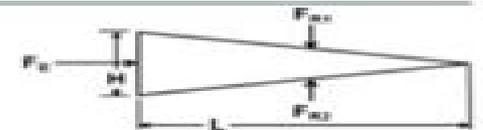
Inclined Plane

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



Wedge

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



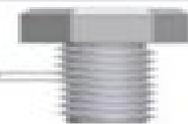
Screw

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

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



Pitch



C = Circumference

r = radius

Pitch = distance between threads

TPI = Threads Per Inch

Compound Machines

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

Gears; Sprockets with Chains; and Pulleys with Belts Ratios

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

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

Compound Gears

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



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

Civil Engineering Material Quantity Formulas

International Correspondence Schools

Civil Engineering Material Quantity Formulas:

The elements of civil engineering Scranton International correspondence schools (Pa),1899 **The Elements of Civil Engineering** International Correspondence Schools,1899 *Trends in Civil Engineering* Xiu Li Du,Jian Jun Zheng,Wei Ming Yan,Yue Li,Jian Wei Zhang,2012-01-24 Selected peer reviewed papers from the Second International Conference on Structures and Building Materials ICSBM 2012 March 9 11 2012 Hangzhou China A Treatise on Civil Engineering William Macfarland Patton,1895 *Cyclopedia of Civil Engineering: Statics; materials; roof trusses; cost analysis* American School of Correspondence,1908 **Transactions of the American Society of Civil Engineers** American Society of Civil Engineers,1891 Vols 29 30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A F papers of the International Engineering Congress St Louis 1904 **Cyclopedia of Civil Engineering: Masonry and concreting materials; stone masonry and plain concrete construction; reinforced concrete. v.5. Steel construction; practical problems in construction** ,1913 *Cyclopedia of Civil Engineering: Strength of materials; statics; roof trusses; cost-analysis engineering* ,1913 **Cyclopedia of Civil Engineering: Statics; materials; roof trusses; cost analysis** American School (Lansing, Ill.),1909 The Cornell Civil Engineer ,1922 Includes transactions of the Association The Civil Engineer and Architect's Journal William Laxton,1853 **The Civil Engineer and Architect's Journal** ,1853 American Civil Engineers' Pocket Book, Mansfield Merriman,1911 **Handbook of Civil Engineering Calculations, Third Edition** Tyler G. Hicks,2016-07-04 Up To Date Techniques for Solving Any Civil Engineering Problem Perform complex design and construction calculations quickly and accurately with help from this thoroughly revised guide Handbook of Civil Engineering Calculations Third Edition features more than 3 000 logically organized calculations that align with the latest practices codes and standards You will get start to finish calculation procedures for Load Resistance Factor Design LRFD anti terrorism components enhanced building security green construction safe bridge design and environmentally sound water treatment All new steps to improve indoor air quality and protect structures from hurricanes tornadoes floods and waves are also discussed in this on the job resource This fully updated third edition covers Structural Steel Engineering and Design Reinforced and Pre stressed Concrete Engineering and Design Timber Engineering Soil Mechanics Surveying Route Design and Highway Bridges Fluid Mechanics Pumps Piping and Hydro Power Water Supply and Storm Water System Design Sanitary Wastewater Treatment and Control Engineering Economics **Mechanical Engineering, Materials Science and Civil Engineering IV** Jing Wei Zhao,2017-03-27 4th ICMEMSCE Selected peer reviewed papers from the 4th International Conference on Mechanical Engineering Materials Science and Civil Engineering ICMEMSCE 2016 November 19 20 2016 Sanya China *The Civil Engineer's Pocket-book* John Cresson Trautwine,1919 *The Civil Engineer's Reference-book* John Cresson Trautwine,1882 *The Civil Engineer's Handbook* International Correspondence Schools,1921 **Handbook of Civil Engineering Calculations, Second Edition** Tyler G. Hicks,2007-05-23 Manage

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