### POE Final Exam Study Guide

#### Simple Machines Management 1 Energy source classifications: IMA: Ideal Mechanical Advantage = Distance effort moves / distance load moves Nonrenewable: can be used up: oil, coal, uranium. AMA: Actual Mechanical Advantage v Load / Effort Remembber more can be made, bio facts, plants, primals Efficiency: = AMA / IMA x 100% Nothing in the real world is more than 100% hey down when to had Classification of Levels: Class 1, fulgram is in the middle, class 2 load is in the middle, imany books combine incohaustible and renewable). class 3 effort is in the middle Works Force times the distance. IMA of a lever: Length of effort arm/length of load arm Powers Work per unit time or Work/Time DMA of a wheel and axel: radius of effort arm/radius of load arm DMA of a screw: circumference / pitch of screw (inches per thread) = nd/P Hydrogen Fuel: IMA of a inclined plane: Length of sloped side of the ramp! height of ramp.

#### Gears, sprockets and drive pulleys

These machines transform rotational energy by changing position, rotational directions, speed and torque.

DMA of a wedge: Length of sloped side of the wedge/ width of the wedge

- us its restationall appoint (open):
- 'e in toesque (in lits, or Neso.
- Gear Ration (GR) = Number of toeth<sub>eat</sub> / muniber of toeth<sub>in</sub> = No/Ni
- $GR = N_a/N_c = D_a/D_c = \tau_a / \tau_c = \omega_c / \omega_{cc}$
- Sprockets use chains: noisier, more expensive, stronger, need lubrication
- Driver pulleys use belts: quieter, cheaper, weaker, no lubrication

IMA of a pulley: Number of strands supporting the load.

Compound Machines: MA<sub>cost</sub> = MA<sub>c</sub> X MA<sub>c</sub>

#### Thermodynamics.

Matter is made up of molecules in motion (kinetic energy):

An increuse in temperature increases motion

Absolute Zero occurs when all kinetic energy is removed from a object 0 K = -273° C

I" law of thermodynamics: Energy cannot be created or destroyed. 2<sup>nd</sup> law of thermodynamics: thentual energy moves from but to cold - Entropy (measure of dis-

order of energy) always increases. I" law of thermodynamics: Energy cannot be created or destroyed.

Thermal energy can be transferred: convection (moving fluid), conduction (tracking objects) or radiation infectromagnetic waves through space or air).

Rate of transfer: P= A\*AT/r-value = k\*A \*AT / L where the r-value is the thermal resistance. T is temperature. A is area, L is length and k is thermal conductivity.

Heat Energy transfer: Q= m \* C, \*AT where C, is the specific heat capacity of a material and m in the many of the object.

Multiple Layers of Insulation: Add the r-values of multiple layers to get the total r-value.

Newton's First Law of Motion three of inertials. An object in a state of rest or uniform motion. well continue to be so unless acted upon by another force.

Newton's Second Law of Motion: The acceleration of an object is proportional to the net force acting on the object and inversely proportional to the object's mans. (FeMA) Newton's Third Law of Motion: For every action force, there is an equal and opposite reaction.

Static Equilibrium: A condition where there are no not external forces acting upon a particle or

rigid body and the body remains at rest or continues at a constant velocity.

X Moments = 0, X Forces in x direction = 0, and X Forces in y direction = 0 Moment: the rotational forces acting on an object o Force \* perpendicular distance.

Centroid: is the center of mass of an object and can be calculated from its dimensions.

- Square:  $x = x_{max}/2$ :  $y = y_{max}/2$
- Separate:  $h = h_{max}/3c y = y_{max}/3$
- Square: A = radius; y = (4 x radius) / (3 x x)

Centroid of compound shapes:  $x = \Sigma (x_i + A_i) / \Sigma x_i$ , where  $x_i$  is the centroid of each shape and A, is the area of each shape.

Moment of Inertiac describes the stiffness of a beam due to its cross section

I = bb/12 for a rectangular cross section with height of h and width of b

Max Deflections describes how much it can bend = FL 7 (48 E I) where F is the applied force, L. is length. I is moment of inertia and E is the modulus of elasticity, a property of the material.

Free Body Diagrams: illustrate forces acting upon a given body including applied and reaction. and are a necessary step in solving for static equilibrium.

Normal Force: a reaction force that is perpendicular to the surface the object touches.

Vector Quantities: have both magnitude and direction and trigonometry

can be used to break them down into a and y components.

 $F_* = F$  \* cost(0) and  $F_* = F$  \* sinc(0) and 0 = tan  $(F_*/F_*)$ 

#### Solving for Static Equilibrium:

- Assume the body is rigid.
- Choose a solutional point (with most unknowns go through it) and solve for  $\Sigma M = 0$
- 19. Then solve for  $\Sigma F_n = 0$ , and  $\Sigma F_n = 0$

Inexhaustible: we don't do anything to make more; solar, wind,

- Hydrogen fael cells combine hydrogen and oxygen to organic electricity.
- They create no pollution, only water.
- It is an emerging technology with many issues such as: storage and distribution.

#### Billion for healthy in

Voltage: (abb. V or E) - units are volts/Vt. Electro motor force:

pressure or force of electricity

Current: (abb. I) - units are amps (A) flow of electrons

Resistance: (abb. R) - units are Olims (GD: resistance to current flow Otheres Barwit, V = 1 \* Rt.

Property  $P = V \cap I$ 

Series Resisters: One path for current - Rosal = R1+R2

Parallel Resisters: Multiple paths for current  $-1/R_{cond} = 1/R_{c} + 1/R_{\odot}$ or  $R_{\text{send}} = R_1 \times R_2 / (R_1 + R_2) \Sigma \Sigma \Sigma$ 

#### Design Process

Define a Problem: Alterity a problem that cuints. Distancing the root cone. Gather

Bradenburne: Present ideas in group. Generate and record ideas. Sock quantity not quality. Keep the mind alert through rapidly paint serio

Reministry and Generale Mean: Analysis the minimum for the most, want, or problem. Investigate who or what it is that in affected, and consider the need, want, or problem. from their perspective. Research set executing adoptions, and alterity with they are not adhousants out approximate. Limits to elimina to ending problems that they have discovered. Perform worker research to describe if a want in send exists and eluminate the development of a design solution.

Identify Criteria and Specify Constraints: Meetily the end over if the client is not. Busheline the problem to the agreement of both client and engineer. Mentily what the solution must do, and the degree to which it will be pursued. Mentily the beststeines within which the contours must perform biother dates. Compile the information into in alternations burined.

Explore Passibilities: Initiate further development of braintenning whose with constraints and tradeoffs considered. Explore alternative ideas based on further Extends finished asked too flowerhingshire.

Develop a Design Proposal: Develop detailed and assessed darkfore. Determine the repetit of material from which the solution will be constructed. Make congruen models. Countries belowed drawings from the computer models is.

Make a Model or Prototype: Mule study models could models or models or models Eulencole: a Superiornal perioricy

Test and Evaluate the Design using Specifications: Eve the provenge under controlled conditions. Test the prototype under actual conditions, Record the results. Evaluate products to determine if problems exist and further work is monded. BurGow the Denigm: Resource the validary of the denign criteria and make adjacements. to the design belof, if incornary. Work through the shriign process until the estation. nativities the design criticia. Update the discussionation of the final edition Create or Make Solution: Determine Custom Mass Production. Consider

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#### Masterials.

Materials: are the substances with which all objects are made, each with its own physical and chemical properties.

- Ellements: one type of atom cannot be broken down.
- Compounds: multiple elements chemically bonded.
- Mixtures: multiple elements or compounds not chemically become decid

Material Classification: metallic, ceramic, organic, polymeric, and composity.

Manufacturing Processes such as machining, casting, molding, and joining convert new materials into consumer goods.

Recycling: an important considerations when choosing materials. Material selection: is based upon mechanical, thornal, electromagnetic, and chemical properties as well as cost.

# **Poe Study Guide Engineering**

**Yi-Tong Ma** 

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