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***problems in dynamics can be reduced to three principal steps. 1. Describe the motion, 2. Apply the appropriate physical laws, 3. Apply the appropriate mathematics. We shall routinely apply these three steps to most of the problems in this course. Beginning with the first problem, this will be done in some detail to provide an example. In later problem sets***

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**rods. Determine the angular acceleration of the body (a) about an axis through point mass A and out of the surface and (b) about an axis**

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**4 Integral Momentum Equation 4/1 Calculate the horizontal force acting on the conical part of the pipe!  $q = 3.5 \text{ m}^3 / \text{min}$   $V =$  Friction losses are negligible. 4/2  $v_1 = 30 \text{ m/s}$   $u = 13 \text{ m/s}$  Friction losses are negligible. a)  $v_2 = ?$  [ ]m/s b) Calculate the angle of deviation  $\beta$  [ ]° (angle between  $v_1$  and  $v_2$  )! c) Determine the force acting on the blade! d) How is the kinetic energy of 1kg water**

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*changing ...*

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***Physics problems: dynamics. Part 1 Problem 1. If an object weighs 30 N on Earth, how much would it weigh on the moon? Solution . Problem 2. A child throws a ball downward from a tall building. Note that the ball is thrown, not dropped and disregard air resistance. What is the acceleration of the ball immediately after it leaves the child's hand ...***

## ***Kinematics & Dynamics***

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***Kinematics & Dynamics Adam Finkelstein  
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***"Determined by positions, velocities, accelerations ≠Dynamics "Considers underlying forces "Compute motion from initial conditions and physics Example: 2-Link Structure ≠Two links connected by rotational joints!1!2 X ...***

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***force on the nail and the force at point A while the nail ...***

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***Dynamics Exam1 and Problem Solutions 1. A box is pulled with 20N force. Mass of the box is 2kg and surface is frictionless. Find the acceleration of the box. We show the forces acting on the box with following free body diagram. X component of force gives acceleration to the box.  $F_x = F \cdot \cos 37^\circ = 20 \cdot 0,8 = 16\text{N}$   $F_x = m \cdot a$   $16\text{N} = 2\text{kg} \cdot a$   $a = 8\text{m/s}^2$***

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