428/17 Ch9 manesky Phys 224 Torqueis he rotalional Equivlent to Force C=rF+= rJF 10 / = 140 N Line of action -075m-Find the torque T= [F_= 6.75m o F.cos20° N T= 170 Nm

まったー 上は一からこ Jat-cobuls Att-20/145) TA = OPNISTA = 7) ant suntad Jakan 214 mans masserilant; NOUZI=T of reng oternhundt (seint ab) com suitaden suita WHTI-J (NOOI-)08 800(2.0)= NOOL. 02500 J - L N 001= 1 \$12 Shud 4182 h

What is the impulse? What is the Fave? FOK>

Thouse
$$=\frac{1}{2} \frac{1}{6} h = \frac{1}{2} \frac{1}{6} \frac{1}{6} \cdot \frac{1}{6} \frac{1}{6} \cdot \frac{1}{6} \frac{1}{6} \cdot \frac{1}{6} \frac{1}{6} \frac{1}{6} \cdot \frac{1}{6} \frac{1}{6}$$

Pi=mJi=0.25kg.1.3 m/s) -> m=0.25kg = 0.325 kg m/s Vi-13m/s Ps = 0.25kg·=1,1 m/s = -6,275 Kgm/s △P=-0,275-0,325 = -0.6 kg m/s Taul = J = DP= - 0.6 Kgm/s = -0.6 N.S Find Aug F& max F the bat exerts on triball Baseball m=1503 V = 201/s 25 = -40 m/s ΔP=J mys-my: = Aren underthe Socie curve 0.15kg=40m/s-(0.15Kg.20m/s)=2bh-20t Fmax=2(0.6sec)F.

428/17 Phys 214 Ball w/ m=01 kg Find height - Coll 15167 when it = Ø or Max height V=-1175 $J = \Delta P = P_2 - P_1 \implies P_2 = J + P_1$ 400 N J-Fava Dt J= 460 N. 5 × 10-3 sec J= ZN Sec P= 2 N sect 0.1 Kg (-11 m/s) P2 = 2 Kgm/s - 1.1 Kg m/s P= 0.9 ks m/s $P_2 - Vm = > V_1 - \frac{0.9 \text{ kgm/s}}{0.1 \text{ kg}}$ J= 9 m/s 2 - Vi-29 DY 0 - (9 m/s) - 2 (9 61) DY 0 - (9 m/s) - 19 (22 soc DY)

428/17 Hys 2/4 For Isolated System momentum is considered $\hat{P}_{\zeta} = \hat{P}_{\zeta}$ 2/m mass=75kg V=4m/s $\frac{1}{P_s} = \frac{1}{P_s} = \frac{1}{25k_s} \cdot \frac{4m_s}{4m_s} + \frac{1}{25k_s} \cdot \frac{0m_s}{8}$ $\frac{1}{P_s} = \frac{300 \text{ kg m/s}}{300 \text{ kg m/s}}$

monny

9/10

4.5 ×109 kg m = 4 × 109 Kg. T

4.5 m/s = V to the left = 1.1 m/s = V to the left

Momentum 15 conserved
15 on afternative why
to describe Newtons Sirst land
Objects in motion
Unless...

MARCH / MARCH

2/28/17 Whoward 1.2 kg toyrife Prific-P ball 1200g Vrew1=30g 15 m/s V recoil - 30.15 Vicio = 638 m/s 4×109 kg 2×104 Kg 6×10×KS Find Ti heavy -> Pf = Pi -0.25 m/s. 640 kg = 2x10 4kg. 1.5 m/s--1,5 ×104 kgm/s=3×104 ksm/s - 41109 K57