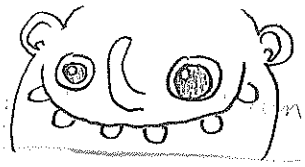
...ed Equilibrium (3 page booklet)



$F_A = 8600N$

$F_B = 6800N$

(2) B. 2.1kg (3) C. 49.3N (4) D. 2160N

(5) $\vec{F} =$ 13N @ 8.6° above $-x$, located 0.15m from right end of beam.

(6) 1.6×10^2 N up (7) 3.5kg (8) 0.68m (9) 47N (10) 67°

(11) C (12) C. 2.0×10^2 N (13) D. 7.0kg (14) A. Nm (15) C. 24N

(16) a) $\theta = \phi = 48°$

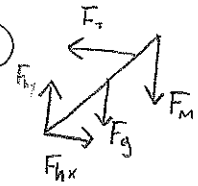
b) Increase

(17) 2.0×10 kg

(18) a. $x = 0.31$m

b. 19N

(19)



(20) $T_l = 250$N

$T_r = 110$N

b. 950kg

(21) 13N [14° above $-x$]

0.20m left of right end of beam

22 a. both b neither

c neither d. rotational

e translational

23. 73Nm clockwise (IN)