P.14.57 Ose Cons monentra V Find a) Vo (on 7 moneton b) l Consergy c) wo From cons of momentum Va-2.6 m/s j Ve= 4.5 1/5 C MV = SmiV a 226 m d=0.15 m $3m V_0 \hat{c} = m \vec{V}_A + m \vec{V}_B + m \vec{V}_C$ 3m Vo? = m 2.6j + m VBj + m 4.51 1: 3 m Vo = 4.5 m Vo = 1.5 m/s/ 1: 0-2.6m + Ve m Vg - 2.6m From cons of energy = (3 m) Vo + 3(5 m V'2) = = = = m V2 + 5 m V8 + 5 m Ve $3 \cdot 1.5^2 + 3 v'^2 = 2.6^2 + 2.6^2 + 4.5^2$ $V' = \begin{cases} 2.6^2 + 2.6^2 + 4.5^2 \\ 3 - 1.5^2 = 3 \text{ m/s} \end{cases}$

Cons angular monentus (Mo) = (Mo) X 15 location of a in x direction 3 lm V' = x m VA + (x-a) m Vg + dm Vc 313 = aVA + dVc l= \frac{1}{9} (2.6-0.26 + 0.15-4.5) l= 0,15 m/ Thus W= = = 0.15 = 20 ral/s

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