

Soluzioni dell' Esame di Fisica per Ingegneria Elettronica e delle Telecomunicazioni (Parte I): 04-2-2016

Soluzione Problema 1. Se denotiamo con $(x(t), y(t))$ l' equazioni orarie del punto materiale, il vettore velocità è dato da $\vec{v} = (\dot{x}(t), \dot{y}(t))$, e la sua norma è data da

$$v(t) = \sqrt{\dot{x}^2(t) + \dot{y}^2(t)}. \quad (0.1)$$

L' equazione orarie soddisfano identicamente l' equazione della traiettoria: $y(t) = A \sin kx(t)$. Se la deriviamo possiamo esprimere $v_y = \dot{y}(t)$ in funzione di $v_x = \dot{x}(t)$: $\dot{y}(t) = Ak\dot{x}(t) \cos kx(t)$. Sostituendo nell' espressione per il modulo della velocità, troviamo che

$$v(t) = \dot{x}(t) \sqrt{1 + A^2 k^2 \cos^2 kx(t)} = v_x \sqrt{1 + A^2 k^2 \cos^2 kx(t)}. \quad (0.2)$$

dpve abbiamo denotato con v_0 il valore costante di v_x , il modulo della velocità è massimo quando $\cos^2 kx(t) = 1$ (cioè $x(t) = \frac{2n\pi}{k}$) con

$$v_{max} = v_x \sqrt{1 + A^2 k^2} = 1.5m/s \sqrt{1 + 12^2 m^2 \times 910^{-6} cm^{-2}} = 1.5m/s \sqrt{1 + 12^2 \times 0.09} = 5.60ms^{-1},$$

ed è minimo quando $\cos^2 kx(t) = 0$ (cioè $x(t) = \frac{2n+1}{2k}\pi$) con $v_{min} = v_x = 1.5m$.

Il modulo dell' accelerazione si trova con un ragionamento simile. Infatti

$$\vec{a}(t) = (0, \ddot{y}(t)) = (0, -Ak^2\dot{x}^2(t) \sin kx(t)) \quad \Rightarrow \quad a(t) = Ak^2 v_0^2 |\sin kx(t)|$$

Dunque è minima per $x(t) = n\pi$ con $a_{min} = 0$ e massima per $x(t) = \frac{2n+1}{2k}\pi$ con

$$a_{max} = Ak^2 v_0^2 = 12m \times 9 \times 10^{-6} cm^{-2} \times 1.5^2 m^2 s^{-2} = 243 \times 10^{-2} ms^{-2} = 2.43ms^{-2}.$$

Soluzione Problema 2. L' assenza di attrito lungo le superfici della cavità implica che le reazioni vincolari $\vec{R}_A$ e $\vec{R}_B$ sono ortogonali a tali superfici. Abbiamo poi la forza peso $\vec{P} = m\vec{g}$ che è applicata nel baricentro G dell' asta. L' asta è in equilibrio se vengono soddisfatte le seguenti due condizioni di equilibrio

TRASLAZIONE: $\vec{R}_A + \vec{R}_B + \vec{P} = 0$

ROTAZIONE: $\vec{r}_{AO} \wedge \vec{R}_A + \vec{r}_{BO} \wedge \vec{R}_B + \vec{r}_{GO} \wedge \vec{P} = 0,$

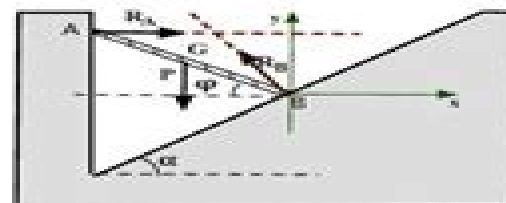
dove O è l' origine rispetto a cui calcoliamo i momenti. Scegliamo $O = B$ e gli assi x and y come in figura. Proiettiamo ora le precedenti equazioni lungo gli assi:

$$\begin{aligned} \text{TRASLAZIONE:} \quad x: \quad & R_A - R_B \sin \alpha = 0 \\ y: \quad & -mg + R_B \cos \alpha = 0 \end{aligned}$$

$$\text{ROTAZIONE:} \quad M_x: \quad -\ell R_A \sin \varphi + \frac{1}{2} mg \ell \cos \varphi = 0$$

dove abbiamo usato che $\vec{r}_{GB} = \frac{\ell}{2}(-\cos \varphi, \sin \varphi)$ e $\vec{r}_{AB} = \ell(-\cos \varphi, \sin \varphi)$. Risolvendo queste equazioni per le variabili R_A , R_B e φ

$$R_A = mg \tan \alpha \quad R_B = mg \sec \alpha \quad \tan \varphi = \frac{1}{2} \cot \alpha.$$



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