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Fizika

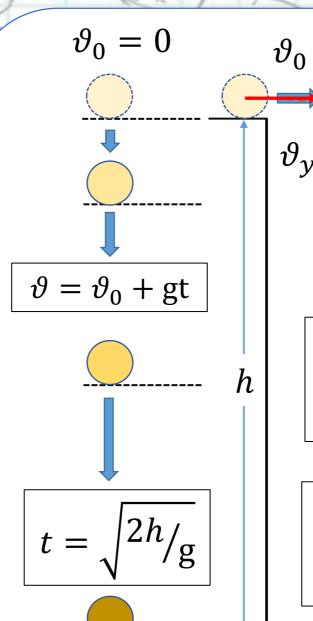


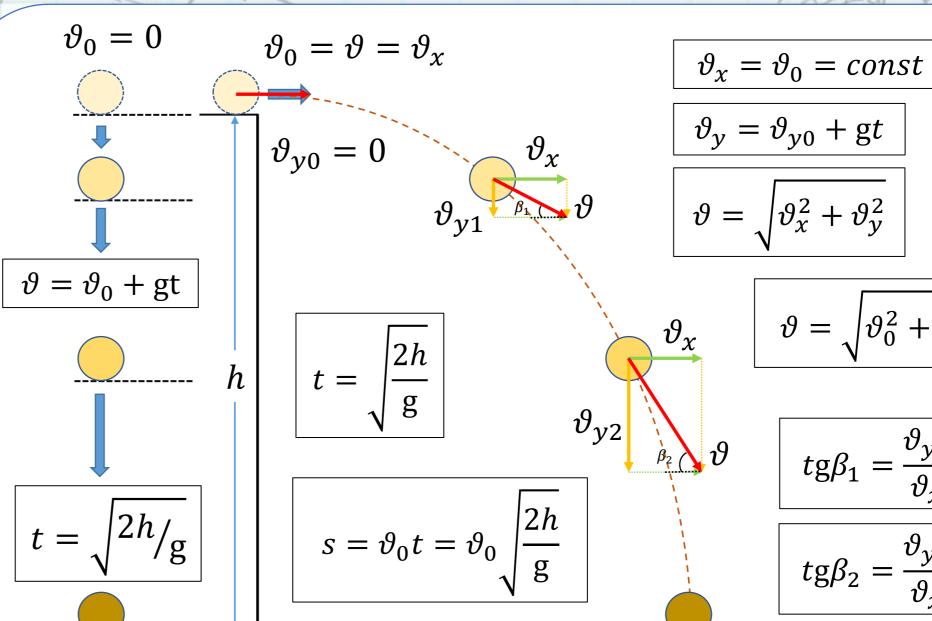


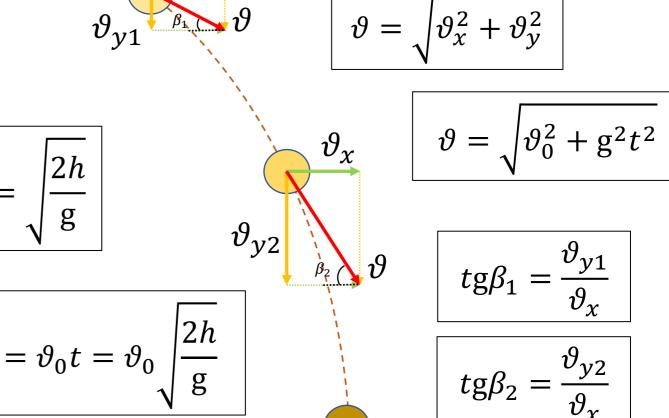
Ibrohim Fayziyev

Og`irlik kuchi ta'sirida harakat o`rganilayotganda soddalashtrish uchun havoning qarshlik kuchi etiborga olinmaydi.

- *t* tushish vaqti
- **h** tushish balandligi
- s uchish uzoqligi
- β tezlik vektorining gorizontal tekslik bilan hosil qilgan burchagi







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IT Fizika





S

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 ϑ – oniy tezlik

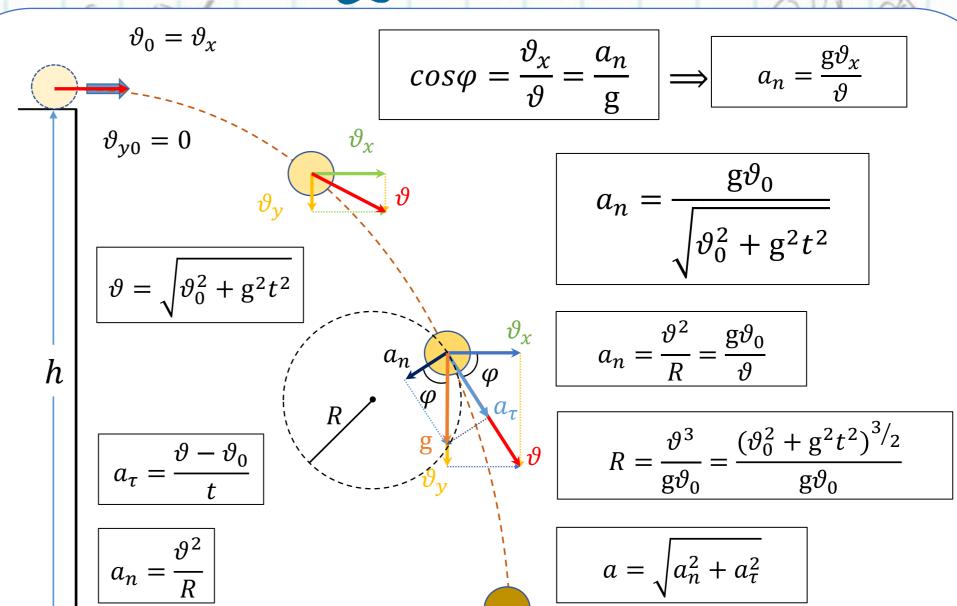
 θ_x – tezlikning gorizontal tashkil etuvchsi

 θ_y – tezlikning vertikal tashkil etuvchsi

 a_n -normal tezlanish (markazga intilma tezlanish)

 a_{τ} -tangensial tezlanish

R – trayektoriyaning ma'lum nuqtadagi egrlik radyusi



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∂ – oniy tezlik

 θ_x – tezlikning gorizontal tashkil etuvchsi

 θ_y – tezlikning vertikal tashkil etuvchsi

β – tezlik vektorining
gorizontal tekslik bilan hosil
qilgan burchagi

 t_k –ko`tarilish vaqti

 t_u –uchish vaqti

 h_{max} –maksimal ko`tarilish balandligi

s – uchish uzoqligi

$$\theta_{x} = \theta_{0} cos \alpha$$

$$\vartheta_{v} = \vartheta_{0} sin\alpha - gt$$

$$\vartheta = \sqrt{\vartheta_x^2 + \vartheta_y^2}$$

$$\vartheta = \sqrt{\vartheta_0^2 - 2\vartheta_0 gtsin\alpha + g^2 t^2}$$

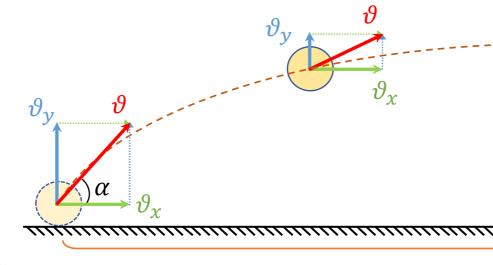
$$tg\beta = \frac{\vartheta_y}{\vartheta_x} = \frac{\pm \vartheta_0 sin\alpha - gt}{\vartheta_0 cos\alpha}$$

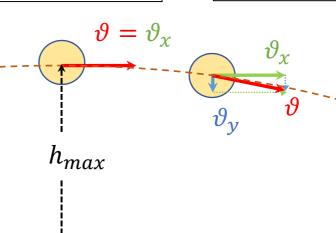
$$t_k = \frac{\vartheta_0 sin\alpha}{\mathsf{g}}$$

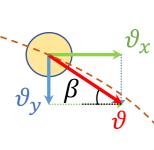
$$t_u = \frac{2\vartheta_0 sin\alpha}{g}$$

$$h_{max} = \frac{\vartheta_0^2 sin^2 \alpha}{2g}$$

$$s = \frac{\vartheta_0^2 sin2\alpha}{g}$$







Focus

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∂ – oniy tezlik

 ϑ_x – tezlikning gorizontal tashkil etuvchsi

 ϑ_y – tezlikning vertikal tashkil etuvchsi

 a_n -normal tezlanish (markazga intilma tezlanish)

 $oldsymbol{a}_{ au}$ —tangensial tezlanish

R –trayektoriyaning ma'lum nuqtadagi egrlik radyusi

$$\theta_x = \theta_0 cos\alpha$$

$$\vartheta_y = \vartheta_0 sin\alpha - \mathsf{g}t$$

$$\vartheta = \sqrt{\vartheta_x^2 + \vartheta_y^2}$$

$$\cos\varphi = \frac{\vartheta_x}{\vartheta} = \frac{a_n}{\mathsf{g}}$$

$$a_n = \frac{g\vartheta_0 cos\alpha}{\sqrt{\vartheta_0^2 - 2\vartheta_0 gtsin\alpha + g^2 t^2}}$$

$$a_n = \frac{g\vartheta_x}{\vartheta}$$

$$a_n = \frac{\vartheta^2}{R} = \frac{g\vartheta_0}{\vartheta}$$

$$\vartheta = \sqrt{\vartheta_0^2 - 2\vartheta_0 gtsin\alpha + g^2 t^2}$$

$$a = \sqrt{a_n^2 + a_\tau^2}$$

Focus

$$R = \frac{\vartheta^3}{g\vartheta_0} = \frac{(\vartheta_0^2 - 2\vartheta_0 gtsin\alpha + g^2 t^2)^{3/2}}{g\vartheta_0}$$

