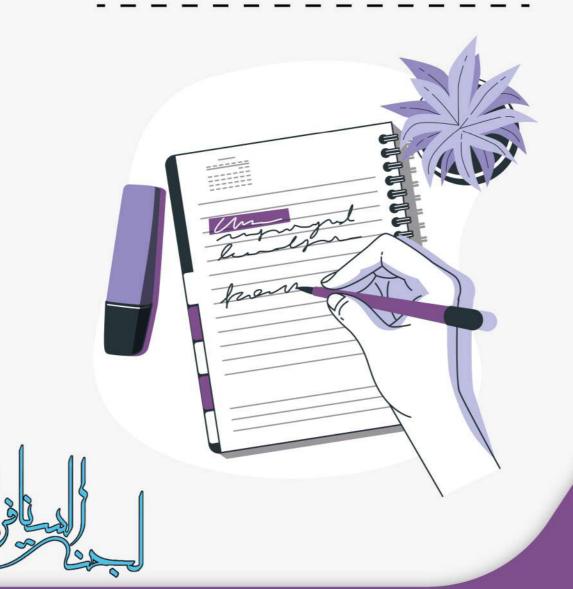
2021



الفزياء العامة 101







Physics 1

فیزیاء عامة 1

القوانين المطلوبة

Chapter 2

$$\Delta X = X_{\varphi} - X_{i}$$

$$\overline{V} = \frac{\Delta X}{\Delta t}$$

$$\overline{S} = \frac{\Sigma X}{\Sigma t} = \frac{\Delta d}{\Delta t}$$

$$\frac{d(X)}{dt} = \frac{dV}{dx} = V$$

ā = AY

$$Vf^{2} = Vi^{2} + 2a\Delta X$$

$$\Delta X = Vit + \frac{1}{2}at^{2}$$

$$Chapter 3$$

$$Y = rsin 0$$

$$Sin \beta = \frac{sin 0}{A}$$

$$Y = \sqrt{X^{2}+y^{2}}$$

$$0 = tan^{-1} \left(\frac{stall}{stall}\right)$$

$$C = \sqrt{A^2 + B^2 - 2AB \cos \theta}$$

$$A \cdot B = |A||B| \cos \theta$$

$$R \text{ ang} e = \frac{V_1^2 \sin 2\theta}{g}$$

$$hight = \frac{V_1^2 \sin^2 \theta}{2g}$$

$$a_c = \frac{V_1^2 \sin^2 \theta}{R}$$

$$V = \frac{2\pi r}{T}$$

$$= r \omega^2$$

Chapter 5'

F=Ma

Fweight = Mg

Friction =
$$M_{\text{Friction}}$$

Chapter 6

 $F = MV^2$
 $M_S = V^2 \frac{1}{g-\Gamma}$

The = $Mg\left(\frac{V_{\text{bot}}^2}{R_{\text{c}}g} - 1\right)$

The = $Mg\left(\frac{V_{\text{bot}}^2}{R_{\text{c}}g} + 1\right)$



Physics 1

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Chapter 7

W=
$$f \Delta r \cos \theta$$

W= $F \cdot r$

W= $\int_{X_i}^{X_i} r dx$

Kentic energy = $\int_{Z_i}^{Z_i} M V^2$

W= $\Delta R \cdot r$

Chapter 8
$$\Delta E = E_F - E_{i=0}$$

$$E_F = E_i$$

$$k_F U_F = K_i + U_i$$

$$V_F = \sqrt{2} g(\Delta y)$$

$$W = \Delta E$$

$$Power = \frac{W}{\Delta t}$$

$$Power = \frac{F.\Delta d}{\Delta t}$$

$$Power = F.V$$

$$Power = Mav of$$

chapter 9
$$P = MV$$

$$P_{before} = P_{after}$$

$$clastic_{M,V_i} + M_2V_2 = M_i v_i + M_1 v_i$$

$$inelastic_{2}$$

$$M_i v_i + M_2 v_2 = (M_i + M_2)V$$

Emech = K+U