of (mr) = 7 + mg = Newster 2 lay B Took m d = 1 + 3 io d & = - general = generalez r0+2i8; g in 0 = differential equations rzk: este Rø + g wið = 0 9 + 9. mn = 0 max = RO max (stantust) = w. O. R = 19. RO. Maximum preed:

$$\frac{\partial}{\partial t} + \omega_0^2 \operatorname{ran}(\theta) = 0 \qquad \text{analytic relation}$$

$$\frac{\partial}{\partial t} \left( \frac{1}{2} \left( \frac{\partial}{\partial t} \right)^2 + \omega_0^2 \left( - \cos(\theta) \right) \right) = 0$$

$$\frac{1}{2} \left( \frac{\partial}{\partial t} \right)^2 + \omega_0^2 \left( - \cos(\theta_0) \right) = \frac{1}{2} \left( \frac{\partial}{\partial t} + \omega_0^2 \left( - \cos(\theta) \right) \right)$$

$$\frac{\partial^2}{\partial t} = 2\omega_0^2 \left( \cos(\theta) - \cos(\theta_0) \right) \qquad \frac{\partial}{\partial t} = \pm dt$$

I imensional analysis: , g, m, R 1 max = LI-1  $\left(\theta_{o}\right)=1$ [8] = LT-2 E dimensiales analysis 6 = g R= R, A= R dimensialess:  $= f(\theta_0) \cdot \frac{1}{2} = f(\theta_0) \cdot \sqrt{3} \cdot R = f(\theta_0) \frac{1}{3} R^{1/2}$ VHAX - (gR) - 1/8)

T/4 T/2 00

tuctia: Find = Color MT 元 = - \$1011 do = (C2) = ML dimeniales number: di= Cs = ; dz = Cz = 100 8 R. 12  $V_{\text{MAX}} = g^{N_2} R^{N_2} \int_{\mathcal{L}} \left( \theta_o, \lambda_i, \lambda_r \right) \Rightarrow \frac{V_{\text{max}}}{\sqrt{gR}} = \int_{\mathcal{L}} \left( \theta_o A_i A_i \right)$ Calibratian dz VMAX V3R Injut

Ale spere
Newto leur dan't apply min in 18 Toms/Te Mi, Ri, ki, i, B 18 / John De driether of the 24 3x3 + 6 = 45Its modelling analytic & enjouble too nany mentiona Carpling and equation. model remerice: impossible physics is different (3) calibration table: still pomble. (2) " Electro-rey and clasticity and greaty and till the same so their insight can still be used.

How to seve date. use ESV fornat. Can be read by aryone. Van-1, van-2, van-3, van-4, target Val-1-1, val-2-1, val-3-1, val-4-1, val-t-1 Val-1-N, vel-2-N, vel-3-N, vel-4-N, vel-t-N A de not une extel or tout nottwee peafix easy to mad for pandes;

pd. read - CSV ("Yplemena . CSV")

Methodes or stamp collecting "
Name tomes we are sleeft with stamp collecting

Finding a velue:

temerature, demistry

8 999,82

1 939,85

2 , 339,34

1 100 , 350,85