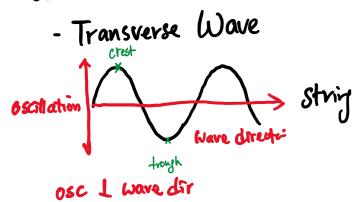
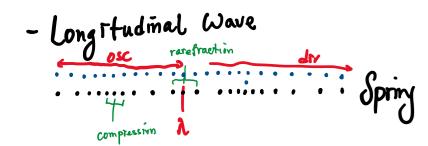
Ch13 Concept

Thursday, 22 October 2020

Waves





OSC Il wave direction

Spring [OC]

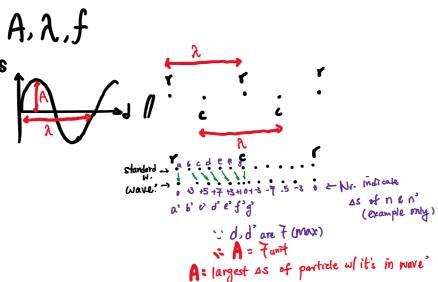
$$V = \sqrt{\frac{T}{\mu}}$$

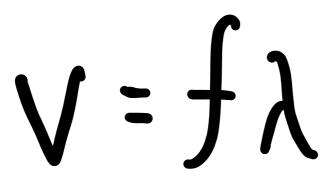
v = still velocity [msi]

T = Tension for here

 μ : Mu/Mass per unit length

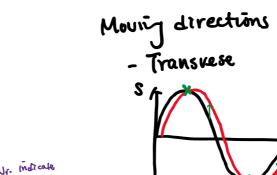
- Transerse wave @ Spring

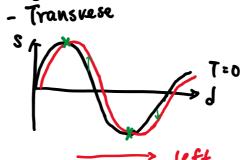


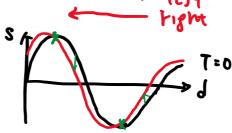


 $[ms^{-1}] = [Hz] \cdot [m]$ ([2]'f)

T = time of a period (1) f = how much T per sec



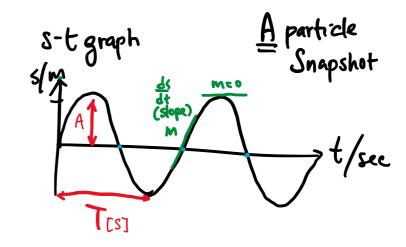




Crest, trough: Momentarity at Rest Others: Refer LIR for up/down

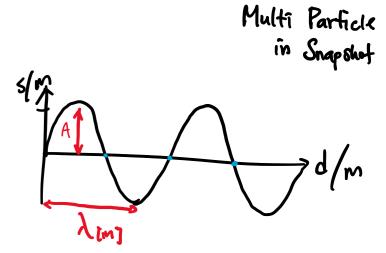
- Longitudinal

Graphs

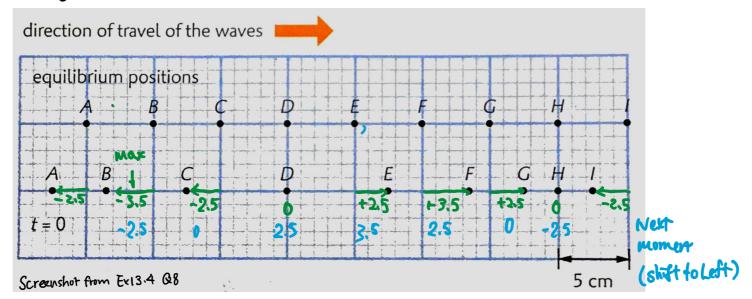


m↑ - faster m + - 8lower M=0 - momentarty Rest

Equilibrium pt: the instant at Equil pos



Equil pt = Location of equil pos



: B, Fmax = 3.5 u 11 17.5 cm

:. A: 17.5cm

Direction!

tright ↓ left

Amplitude pt are

Momentarily at rest 4R?

2 proofs:

(Graph: Horizally of graph (s-d)

2) Figures: Omit Ampitule pt (Rest)

· Original - Next : Pos -> Some as direction

Neg -> Invarse of direction

Chickened 2020 Oct 22