| g (Last) | Page Date Page |
|----------|--|
| | in The orgular frequency of the torsion pendulum |
| · · | where "it is oscillating" |
| | $T = 2\pi \sqrt{\frac{1}{10}}$ |
| | angular frequency) is, = moior y |
| | $20 = 2\pi = k = 0.24.$ |
| | = 0.571 rads. |
| | |
| | Troly cx != |
| | 1 = 0 135 kg m² |
| | |
| | toolows town town the |
| | |
| | - Indian control is a made |
| | No de a de |
| | Enlaw De-o - |
| | |

3 501°

we have total absorption in hall based on

the given date

The absorption by plantered wall = 98.0.03 = 2.94 m² Plantered ceiling = 144 x 0.00 = 5.76 m²

Worden Boor

 $= \frac{144 \times 0.00}{5.76 \text{ m}^2}$ $= \frac{144 \times 0.00}{5.76 \times 0.00} = 0.90 \text{ m}^2$ $= 80 \times 1.0 = 88.0 \text{ m}^2$

Cushioned Chairs

Total. Audience

= 97.6 min

empty 100 97.6 m²

When the hall is full copacity 110 persons, then absorphion due to them, =110x4.7 = 517 m2

Now total absorption.

 $= (97.6 + 517) m^{2}$ $= (614.6 m^{2} + 16.8)$

= 0.128 × 1400

= 221:2 (14.6

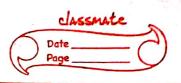
2 0.35 Sealy

| Q (4) | soln linear moss density (h) = 0.5 kg/m | | | | | | | |
|---------------------------|--|--|--|--|--|--|--|--|
| 9 3 | Linear Moss aprili | | | | | | | |
| | T= 10N | | | | | | | |
| A = 0.12 m m = 0.0012 m | | | | | | | | |
| | 6- 100 Ha | | | | | | | |
| | let the eq " bp | | | | | | | |
| Sign . | G: Asin (w++kx) Since it is in- | | | | | | | |
| S 100 3 | To the second of | | | | | | | |
| 77 (10 | 0 - 17.0 V ZITK = 207 | | | | | | | |
| * X | LE - CILOS (A) SINI L MINISTER | | | | | | | |
| | Mour diff | | | | | | | |
| | V= I - 10 | | | | | | | |
| | of that make Villes in Villes in that all the | | | | | | | |
| | 500 - 2. 4- U7 m/g/g/d | | | | | | | |
| | | | | | | | | |
| | - Mora Oluzerfx-da III es III | | | | | | | |
| , | 2 2 u.uz | | | | | | | |
| | 100: 100 | | | | | | | |
| | = 0.0 UV7 m | | | | | | | |
| | | | | | | | | |
| 73.5 | nous | | | | | | | |
| | C = 20 | | | | | | | |
| | A total a | | | | | | | |
| 7 | = 140.563 | | | | | | | |
| | | | | | | | | |
| | $\omega = 2\pi I$ | | | | | | | |
| | = 828.31 | | | | | | | |
| | | | | | | | | |
| | The production of the second o | | | | | | | |
| E.A | | | | | | | | |
| | | | | | | | | |
| 1.5 | | | | | | | | |

| 83 | Progressive wave stationary wave | | | | | | |
|------|---|--|--|--|--|--|--|
| 1 | It is travelling wave with is standing wow | | | | | | |
| | The trursper of energy a) Theory is confined with | | | | | | |
| | take place from one laction a medium | | | | | | |
| | medium within a | | | | | | |
| 1 | 3) | | | | | | |
| (3) | All the posticles have similar () All the particle have their | | | | | | |
| 1100 | maximum velocity aun maximum velocity | | | | | | |
| 141 | Amplitude à some (a) Amplitude is different. | | | | | | |
| A · | 1-401-2010000000000000000000000000000000 | | | | | | |
| 12 | Crests & trough of comp is Crasts & trough of the | | | | | | |
| | from more in the forward wavefrom appear of disop- direction per at inital position. | | | | | | |
| | direction per at mital position. | | | | | | |
| Ť. | | | | | | | |
| | | | | | | | |
| | Total energy is the sum of kinffix of | | | | | | |
| | potential energy There fore, potential energy in the progressive was is. | | | | | | |
| | was or | | | | | | |
| | | | | | | | |
| | ie y = a sin 21 (vt-r) | | | | | | |
| | w= 1 k c ² sin ² 2n (Ut-x) | | | | | | |
| | | | | | | | |
| | $= \lim_{n \to \infty} \frac{1}{n} \frac{1}{n} \left(\frac{1}{n} - x \right)$ | | | | | | |
| | | | | | | | |

| | Figure 1 State of the state of |
|-----------|--|
| | Now. potential energy per unit volume is |
| | Now prential energy per Unit Uplome 1) |
| | potential energy per (υt-x). |
| | () (a)(a)(a) |
| 4. | R. E. per unit volume in |
| | KF = 1 P |
| | -10/du/2 |
| | = 1 g (dy)2 |
| | =119 (21 Ver co21 (101-x)? |
| | = 1 9 (21 Va Co 211 (W-x)? |
| | $= \frac{1}{2} \frac{9 + \pi^2 V^2 U^2}{1^2} \cos^2 \frac{2\pi}{2} \left(\frac{9+-x}{1} \right)$ |
| | # (1987) 1 |
| | = 1 8 w2 c12 co12 zm (N+-x) |
| | at a read a distribution of the state of the |
| | Soil Cours manual regular and a most man |
| | 101111 E = KE 40 10 . 109 |
| | E= 1 f w ² a ² => E= 211 ² g v ² a ² |
| L Comment | \lambda^2 |
| | Since V= f1 |
| × | $\xi = 2\pi^2 \text{ s } + 2\pi^2 s $ |
| a) | reining sill the trade |
| | $\mathcal{E} = 2\pi^2 \mathcal{E}_{\mathcal{L}}^2$ |
| C | The transfer to the same of th |
| | 16 to energy. For uplump i) |
| . , | 00 & = 2112 8 C2,210 |
| , | Since |
| | 0 = A x 0 - But · Q = 10t |
| | :. V = A18+ |
| | E=2728 f2a2 Aut. |
| | |

| | 2-2-(11) 19701d - 1/2/1 | | | | | | |
|----------------------|--|--|--|--|--|--|--|
| | hore -ii | | | | | | |
| | n= 50 -6) | | | | | | |
| aloil of sound of Ui | | | | | | | |
| | whom is relocity is total surface care | | | | | | |
| = | 00101112 87 1000 | | | | | | |
| | freim (1) 4 (1) | | | | | | |
| | On the second se | | | | | | |
| | D1 = -80.00 J Df | | | | | | |
| | 40 | | | | | | |
| | del out soil - suix internal in the investment | | | | | | |
| | some It make a house housed it have | | | | | | |
| | man of all sold at at sold | | | | | | |
| | ac with II for any in well think | | | | | | |
| · | Integrating both side | | | | | | |
| | The state of the s | | | | | | |
| | To IT I W dd | | | | | | |
| | 10 to the second | | | | | | |
| | 1 pa (I+/2) = -in 50 1 | | | | | | |
| | 100 (It/fo) = -ix 50 t | | | | | | |
| | We have It = In | | | | | | |
| | 106. | | | | | | |
| · | 100 (10 - 2 · Su + | | | | | | |
| | | | | | | | |
| | 109 (16) = - 250 (| | | | | | |
| | i dinali | | | | | | |
| 10.79 | u _V | | | | | | |
| | Put value of (v) = 350 mlgs | | | | | | |
| | | | | | | | |
| | 13.812 = x 2 x 320 + | | | | | | |
| | 40 | | | | | | |



4 = 0.15 BN

| Where | . + 5 | 's f | · m · P | |
|-------|-------|------|------------|-----------|
| | × | ° () | absorption | coeff |
| | U | A - | uclume. | i i |
| | \$ | 1) | total sur | fore are. |