Phys 2110-4 4/17/13

Note Title 4/17/2013

500 g bboch on a fricless horiz surface is attached to a rather Imp sprilg h= 8.7 M. A second bloch rests on first, & whole system executes SHM w) period 1.85. Ampisjacreto 35 cm, upper bloch begins to slip. What is coeff. I static fric between two blocks? t spon

$$Q_{\text{max}} = A \omega^2$$

$$= 4.26 \frac{\text{m}}{52}$$

A = 35 (m) T = 1.8 s W = 3.49 s W = 1.8 m $W = 1.8 \text{$

$$f_{skn} = M_S N = M_S M_S$$

$$= M_G M_{amax}$$

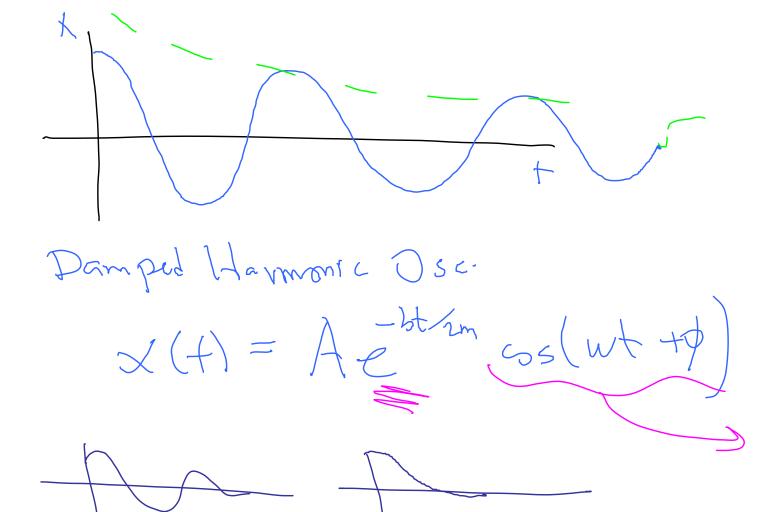
$$= M_G M_{amax}$$

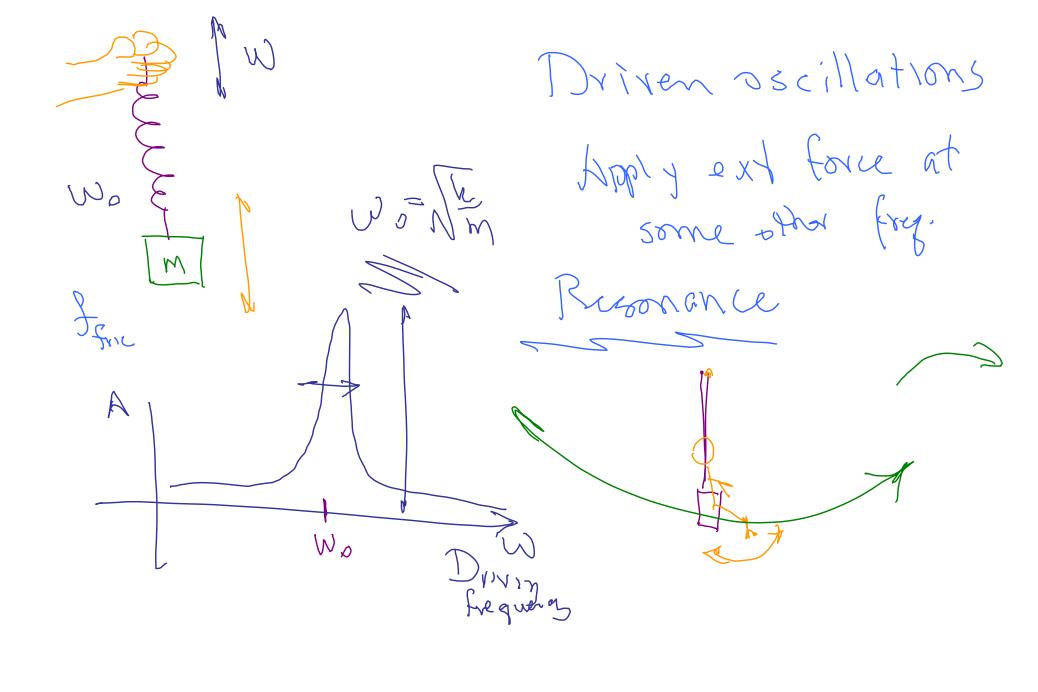
$$M_S = \frac{4.26 M_{sh}}{9.8 M_{sh}} = 0.435$$

A solid cylinder mass M radins R mounted on axk this center. Axle attached to spring, const k. (Solls back & forth. Dit with energy! Suppose spring 13 extely Wheel 15 motion. KE: $X = X_{res} + X_{rot}$ $= X_{res} + X_{rot}$ $= \frac{1}{2} M r^2 + \frac{1}{2} \left(\frac{1}{2} M R^2\right) \left(\frac{V}{R}\right)^2$

D= = = 12 Kx2+3 MV2 Take det of this Gives yero! = 2 × 4 + 3 M 2 v dv = 0 KXX + 3MXa = 0 $\frac{32}{31} = 0 = -kx \left(\frac{2}{3}M\right) = \frac{2k}{3m}x$ $\frac{1}{3}M$ $\frac{1}{3}M$ $\frac{1}{3}M$ $\frac{1}{3}M$ $\frac{1}{3}M$

More or	1 05c15	0000		
Damp	xd 35c,3			
Mose oft Spprba Red for	en study vel from -V mass morn	Lop fr Annu fli	nzton	
DE	-kx -b,	$\Lambda = WO$		1 chin
	Mgx, + p fx	+ LX ~	V	





Déformable Medjum. String Water JDY -Disturbance Ng/w.

Waves.