Couple due to waight of flywhill

= migx1

= 10x 9.81 x 0.15

= 14.71 N-m

N. K. T gyro o copii Coupu

C= 2. w. wp

14.71 = (10) (0.2) (104.71) WP

Wp = 0.35 vad/si

The axis or is precision with angular thought when you will them top

An acroplant make of Complethon Circle of 1500 radio to the control of property of plant and a radius of gypration of mass of 400kg and a radius of gypration of men the engine votates and the gypration when vicated from ran find the gyprascopic couple of outpour and state this effect.

Given R= 150 m

= 200 X100 = 3600 = 55.55 m/s

$$W = \frac{171N}{60}$$
 $(9p = \frac{V}{R})$
 $= \frac{17(3400)}{60}$ $= \frac{55.65}{15}$
 $= \frac{15}{251.32}$ $= \frac{3.7}{400}$ $= \frac{3.7}{400}$ $= \frac{3.7}{400}$ $= \frac{3.7}{400}$

$$C = 2. \omega.\omega p$$

= $m k^{\gamma} \omega.\omega p$
= $(4\omega)(0.3)^{\gamma}(251.32)(3.7)$
= $33.47 \ \nu N-m$

* (The also plane takes the Oct and the engine words from wase

5. NO	Turn	Potal Potation	VKW ~-	NOSC	YOL
1.	Steft	C.W	rail	rasica	towu d
٥,	right	CH	rail	Lowered	raised
3.	left	CON	"	· H	2000
4,	Right	//	1 11	1 -1 raised	
5	40.57	C.W	Front Ino	tower lower	d raised

Consult ber ComeConn

P= C/2

.. Othe vortical weachers of coch of own quint cuheel = P/a

D= C/22

when engine & whow are notating opposite machin

C = CN-CE

when CEXCh then c will be negative. thus the the reaction will be votically downwood on outer When and vertically upwords upwords

3. CFFICT OF COMBIFUGION Couple:

path. Hufo's the Centry of Schiol. the effect of the Centry of Ochiol. the effect of the Centry of Ochiol. the effect of the Centrified 200 is also to one two of vehicle.

The centifugal force F.C = mwgs = mx vr y p wp= V/R -×10 = mx<u>√</u> 1

.: The couple tending to over two the vehicle

 $CO = FC \times h$ $= mv^{\nu} \times h$

this ovu turning couple is bolloned by

the wood auface not tempored. the centurof, gravity lies Guilh Unspect 10 4- Wheel?

Given

$$G = \frac{\omega_F}{\omega_b} = 3$$

W/4 = 1588m Notesale.co.uk - page 27 of 36

gyposcopic Couple du to votating

CE = IF WE WP

= (12)(3WN) (0.01Y)

= 0.12 N N-M

Net gynoscopic Couple

C = Chatca [some direction to sign]

= 0.83V +0.12 V

= 0.45v2

were to this gyroscopic couple the waction rail will be vorcally upword on outer where and of this coch own & includite Said be P/z

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2(1.5)

= 0.15 V

W.K. 7

1600 (v)

.. Co = Foxb = 16v x 0,5

$$= 1471.515100$$

$$(145.18)11875 Coso = 1471.55100$$

$$0 = tan' \left(\frac{2022.87}{1471.5}\right)^{11}$$

$$0 = 53.96$$