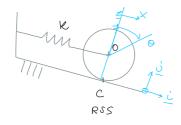
Esercizio: oscillazioni libere

venerdì 13 dicembre 2024 12:04



Noto

duco omogeneo GEO, M, J6 K

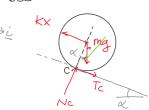
Valutore

- 1) Epre moto
- 2) Wn
- disco RSS => "O" trosla lungo U
- RSS 2gdl => disco 1gdl ×=ró AFV 5)

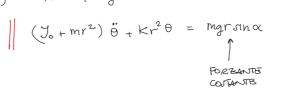
=) 3 WWG \$ SENI EDWILBERO 2 INCOGNIE

=) X =0 dolle condit. di epul. sissico

DCL



ICO c) - Kxr+ mg sinxr = Jc 0



16- ro₀

Kr200= mg/sinx

ALUNGAM. MOUA FRECCIA STATICA ×0= r00 00 = mg sind Per EFFEITO FORZA PESTO 0(4)

 X^1 +.c. $X^1=0$ puondo $X=X_0=Y_0$

 $(J_0 + mr^2)\ddot{\theta} + Kr^2\theta = Mgrsin\alpha$ (1 + mr2) 0 + kr2 (0 +00) = mg rund

$$\theta_0 = mg \frac{\sin\alpha}{kr} \qquad (J_0 + mr^2) \dot{\theta}' + kr^2 \dot{\theta}' + kr^2 \dot{\theta}_0 = mgr \sin\alpha$$

$$\longrightarrow \left| (J_0 + mr^2) \dot{\theta}' + kr^2 \dot{\theta}' = 0 \right|$$