0, 1 = 0.1kg No=0.3kg d=0.5m 0=1 mg d(1-sing)+m, g(1-sing) = gd(1-sing)(m+m) = g0.613 = E0 $V_{2} = \frac{1}{2} \ln V_{1}^{2} + \frac{1}{2} I \omega_{-\frac{1}{2}}^{2} \ln V_{1}^{2} + \frac{1 \cdot 1}{2 \cdot 3} \omega_{3} d^{2} \omega_{-\frac{1}{2}}^{2} V_{1}^{2} \left(\frac{\omega_{+} + \omega_{+}}{2} \right) = \sqrt{\frac{6 E_{0}}{3 \omega_{+} \omega_{+}}} = 1.47 \omega_{5}^{2}$ m=2kg r=0.15 m d=0.12 m m2=0.3kg m M=0.23 Nm =1.21 $I_{\alpha} = M - fd$ $I_{\alpha} = fd$ $I_{\alpha} + I_{\alpha} = M$ $\theta_{\alpha} = \frac{1}{2}\alpha_{\alpha} + \frac{1}{2$ $\Delta L = Mt = I, \omega, +I, \omega_2 = -\frac{(\theta_1 - \theta_1)}{2\pi}.2\pi d \text{ mign} + M\theta_1 = \frac{1}{2}I, \omega, +\frac{1}{2}I, \omega,$ W=2 kg V=0.5m M=14.4Nn K=8Nm 3 M2= En M=0.2 a) dL = Mar Jal Jankowst Ida = M-Kw Janko = Jak $\frac{1}{L} = \frac{1}{K} \ln \left(M - K \omega \right) = -\frac{1}{K} \ln \left(M - K \omega \right) + \frac{1}{K} \ln M = \frac{1}{K} \ln \frac{M}{M - K \omega}$ Me== M-Kω (1-e=) lim ω= M=1.8 rod b) $m_2 \square \square \square = \square' \omega' \qquad m_1 \alpha' \omega = (m_1 \alpha' + m_1 \alpha') \omega' \qquad m_2 \omega' = \frac{3}{3} \omega = 1.2 \text{ Years}$ TIMB M=10Kg Y=0.2 M=5.88Nm na=20xin A M = ung == 1.96 Nn I= mx = Ia=Ia=0.2 kg m2 I a = MA - Man a = 19.6 rad I a = Man & a = 9.8 rad MATT I ($\omega_{A}^{2}+\omega_{B}^{2}$) + 2 π $M_{A} = \frac{1}{2}I(\omega_{A}^{2}+\omega_{B}^{2}) + 2 \pi M_{A} = 0$ ($N_{A} - N_{B}$) $M_{A} = 0$ 807Ma=It2(da2+aB)+47 NB Man An B= 807Ma-It2(aB+aB)=10 NB=10 m, r M= 8.6 Nm to=6.35 t'= 10.55 QA(t')= WB(t') M(120to)=0 Is & = M-Ma IA do = Ma Wa(to) = dato wa(to) = & to) Que want Mat'= wg. - Mit' ZMP' W. GUZO MZ W. DO $M_A f'(\frac{I_A + I_S}{I_A I_S}) = \omega_{SO} - \omega_{AO}$ $\frac{\overline{I}_{A}+\overline{I}_{S}}{\overline{I}_{A}\overline{I}_{S}} = \frac{\omega r^{2} + \frac{2}{5}\omega r^{2}}{\frac{2}{5}\omega r^{2}} = \frac{7}{2\omega r^{2}} = \frac{7}{2\omega r^{2}} = \frac{7}{7t^{4}} = \frac{\omega_{so} - \omega_{ao}}{7t^{4}} (2\omega r^{2})$ MA = 2 mr2 to (x 5 - \alpha 4) = 2 mre to (M-M2 - M3 5 = 2 to (5M-5M3-2 M3) = \frac{to}{7t'} (5M-7 M3)

7t' \(\lambda \frac{\alpha}{7t'} \left(\frac{\alpha}{2} mre - \frac{\alpha}{2} \right) = \frac{2to}{7t'} \left(\frac{5M-5M3-2M3}{2} \right) = \frac{to}{7t'} \left(5M-7 M3 \right) = \frac{1}{7t'} \left(\frac{5M-5M3-2M3}{2} \right) = \frac{1}{7t'} \left(\frac{5M-5M3-2M3}{2} \right) = \frac{1}{7t'} \left(\frac{5M-7M3}{2} \right) = \frac{1}{7t'} \left(\frac{5M-5M3-2M3}{2} \right) = \frac{1}{7t'} \left(\frac{5M-7M3}{2} \right) = \frac{1}{7t'} \left(\frac{5M-5M3-2M3}{2} \right) = \frac{1}{7t'} \left(\frac{5M-7M3}{2} \right) = \frac{1}{7t'} \left(\frac{5M-7M3}{2} \right) = \frac{1}{7t'} \left(\frac{5M-5M3-2M3}{2} \right) = \frac{1}{7t'} \left(\frac{5M-7M3}{2} \right) = \frac{1}{ $M_{A} + \frac{t_{0}}{t_{1}} M_{A} = \frac{5t_{0}}{7t_{1}} M$ $M_{A} = \frac{5t_{0}}{7t_{1}} M = \frac{5t_{0}}{7(t_{1}+t_{0})} = \frac{5t_{0}}{7(t_{1}+t_{0})} = \frac{3Nm}{3.69Nm} \omega_{s} = v_{s}t_{0} - \frac{m_{s}}{L_{s}}(t_{1}-t_{0})$ $\omega_s = 0$ $\alpha_s r_0 = \frac{M_a t}{I_s}$ $\frac{M-M_a r_0}{I_s} + r = 8.34 = \Gamma' + 4.145$ P=7.103 Kg, Y=0.3 V2=0.5 % fase: M2 ωst ω2=1200 fase 2 M, M2=0

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P=7.1 M,= p. Tr. 2d, = 1979 Kg Mz=p(Tr. 2d2-Tr. 2d2)= 70 KKg I,= = m,r. = 89,1 Kg m2 I2= = 9Td2 (v. 4-r.4) = 119.6 Kg m): I, α=0=M2-M, Iz α=M2-M2 TOPPER ω2=α2 to α2=1.26 mg 2): $I_2\omega_{20}=(I_1+I_2)\omega$, $\omega_1=72V_2d$ $\omega_{20}-\frac{M_2}{I_2}(t_1-t_2)=\omega$, $M_3=\frac{I_2(\omega_{20}-\omega_1)}{t_1-t_0}=128.4N_m=M$ M - M. +T. x - 279 1 N/4