M=0.1Kg M=0.5Kg d=0.5 m 0= 1/2 mg d(1-xing)+m, g(1-xing) = g d (1-xing)(m+m) = \$0.613 = E0 E,= \frac{1}{2}mV, + \frac{1}{2}IW = \frac{1}{2}mV_1^2 + \frac{1}{2} \frac{1}{2}m_2 d^2 W = V_1^2 \left(\frac{m}{2} + \frac{m}{6}\right) \V_1 = \sqrt{\frac{6E_0}{3m+m_2}} = 1.47m_2^2 mi=24 r=0.15 m d=0.12 m m2=0.3 kg /m M=0.23 Nm =1.25 $I_{\alpha} = M - fd$ $I_{\alpha} = fd$ $I_{\alpha} + I_{\alpha} = M$ $\theta_{\alpha} = \frac{1}{2} \alpha_{\alpha} t^{\alpha} = 0$ $\Delta l = Mt = I_{i}\omega_{i} + I_{i}\omega_{2} - \frac{\theta_{i} - \theta_{i}}{2\pi} \cdot 2Md \text{ mig } M) + M\theta_{i} = \frac{1}{2}I_{i}\omega_{i}^{t} + \frac{1}{2}I_{i}\omega_{i}^{t}$ W=2 kg V=0.5m M=14.4Nn K=8Nm2 M== 1 N=0.2) di = Mer Jak John Mar Idw = M-KW Jaw = Jat $\frac{1}{L} \left\{ \frac{1}{K} \ln \left(M - K \omega \right) \right\}_{\omega}^{\omega} = -\frac{1}{K} \ln \left(M - K \omega \right) + \frac{1}{K} \ln M = \frac{1}{K} \ln \frac{M}{M - K \omega}$ Met = M-KW 40= M(1-et) lim W= M= 1.8 rod b) m, D I $\omega = I'\omega'$ $\frac{m_1 r}{2} \omega = (\frac{m_1 r}{2} + \frac{m}{4} r^2)\omega'$ $\frac{m_2 \omega}{2} \omega = \frac{3}{2} \omega = 1.2 \frac{m_3 \omega}{2}$ M=10Kg Y=0.2 M=9.88Nm n=20xn M= Mmg == 1.96 Nn I= mg = In=0.2 kg m I 0/2 = MA-Man 0/2=126 red I 0/2= Man 0/3= 9.8 red MATT I (ω, 4 μ) + 2 π ν (n, -n) ματτ 807M= It (xx+xx) +47 NB Man Min B = 807Ma-It (xx+xx) = 10 NB=10 $M_{A}^{2}+\alpha_{B}^{2}$) + 47 NB Mar MANB = $M_{A}^{2}M_{A}^{2}M_{B}^{2}$ $M_{A}^{2}M_{B}^{2}$ $M_{A}^{2}M_{B}^{2}M_{B}^{2}$ $M_{A}^{2}M_{B}^{2}M_{B}^{2}$ $M_{A}^{2}M_{B}^{2}M_{B}^{2}$ $M_{A}^{2}M_{B}^{2}M_{B}^{2}$ $M_{A}^{2}M_{B}^{2}M_{B}^{2}$ $M_{A}^{2}M_{B}^{2}M_{B}^{2}M_{B}^{2}$ $M_{A}^{2}M_{B}^{2}M_{B}^{2}M_{B}^{2}$ $M_{A}^{2}M_{B}^{2}M_{B}^{2}M_{B}^{2}M_{B}^{2}$ $M_{A}^{2}M_{B}^{2$ Is & = M-M2 IA da = M2 Wa(ta) = da lo wa(ta) = da to) Quantitiens. Mil and was me to the $M_{A} + \left(\frac{I_{A} + I_{S}}{I_{A} I_{S}}\right) = \omega_{SO} - \omega_{AO} \qquad \frac{I_{A} + I_{S}}{I_{A} I_{S}} = \frac{mr^{2} + \frac{2}{5}mr^{2}}{\frac{2}{5}m^{2} + N^{2}} = \frac{mr^{2} + \frac{2}{5}mr^{2}}{\frac{2}{5}m^{2} + N^{2}}$ MA = 2mx26 (x5-0x4) = 2mx26 (M-M2 - M2) = 2to (5M-5M2-2M2) = to (5M-7M2) Ma+teMa=5teM Ma=5teM = 5teM = 2.3Nm W, (1-to) $\omega_s = 0$ $\alpha_s r_0 = \frac{M_2 r}{I_s} \frac{M - M_3 r_0 = M_3 r}{I_s} + r = 8.34 = r' + 4.145$ P=7.103 Kg, γ=0.3 γ=0.5 % foge: M2 (0)+ ω2=1200 foxe2 M, M2=0

d=1 m/3 m/3 M3 & 10 σ 10 to 10 t M,=p. Tr, 2d, = 1979 Kg Mz=p(Tr2dz-Tr2dz)= 7014 Kg I,= = m, r2=89,1 Kg m2 Iz= = 97dz (r2-r,h) = 119.6 Kg m): I, x = 0 = M2-M, I2 x = M2-M2 000000 W2= x2 to x2=1.26 mg 4): $I_2 U_{20} = (I_1 + I_2) \omega_1$, $\omega_1 = 72 V_{20}$ $\omega_{20} - \frac{M_2}{I_2} (t_1 - t_2) = \omega_1$, $M_3 = \frac{I_2(\omega_{20} - \omega_1)}{t_1 - t_0} = 128.4 N_m = M$.

M - M. +T. W. - 279 1 NA