$$\begin{array}{c} \text{CMC-12} \ \text{duta} \ 5 \ \text{Euc} \ \text{Gains} \ \text{Polision} \\ \text{1-} \ \sigma - \xi_1 \omega_m \ , \omega_3 = \omega_m \Gamma - \xi_1^{-\frac{1}{2}} \\ \text{tal}_{0}^{103} = t_n \ \frac{\pi - \text{orccools}}{\omega_m \sqrt{1 - \xi_n^{-1}}} \\ \text{Mp} = e^{-\frac{1}{2\pi}} \\ \text{Mp} = e$$

S'+ Kp+R s + Ki = (s-p<sub>1</sub>)(s-p<sub>2</sub>) = (s-p<sub>1</sub>)(s-p<sub>1</sub>) = s<sup>2</sup>-2Re(p<sub>1</sub>)s+|p<sub>1</sub>|<sup>2</sup>

[Kp+R = -2(-ξωm) = 2ξωm = 7 Kp = 2ξωm.L - R

[Kω = (ξωm) + (ωπνί-ξ) + ω<sup>2</sup> (ξί-ι-ς) = ω<sup>2</sup> γ Ki = ω<sup>2</sup> · L

$$\frac{1}{X_{10}} = (K_{p} + K_{d} \cdot a) \cdot \frac{1}{m_{0}^{2} + b_{0}} (R_{10} \cdot F_{0}) - X_{10})$$

$$\frac{1}{X_{10}} = \frac{(K_{p} + K_{d} \cdot a)F_{10}}{m_{0}^{2} + b_{0}} = \frac{(K_{p} + K_{d} \cdot a)F_{10}}{m_{0}^{2} + b_{0}} R_{10}$$

$$\frac{X_{10}}{R_{00}} = \frac{(K_{p} + K_{d} \cdot a)F_{10}}{m_{0}^{2} + (b_{1} + K_{2})a + K_{p}} = \frac{(K_{p} + K_{d} \cdot a)F_{10}}{m_{0}^{2} + (b_{1} + K_{2})a + K_{p}}$$

$$\frac{X_{10}}{R_{10}} = \frac{(K_{p} + K_{d} \cdot a)F_{10}}{m_{0}^{2} + (b_{1} + K_{2})a + K_{p}} = \frac{\omega_{m}^{2}}{m_{0}^{2} + (b_{1} + K_{2})a + K_{p}}$$

$$\frac{X_{10}}{R_{10}} = \frac{(K_{p} + K_{d} \cdot a)F_{10}}{m_{0}^{2} + (b_{1} + K_{2})a + K_{p}} = \frac{\omega_{m}^{2}}{m_{0}^{2} + 2E_{1}\omega_{m}a + \omega_{m}^{2}}$$

$$\frac{(K_{p} + K_{d} \cdot a)F_{10}}{m_{0}^{2} + (b_{1} + K_{2})a + K_{p}} = \frac{\omega_{m}^{2}}{m_{0}^{2} + 2E_{10}\omega_{m}a + \omega_{m}^{2}}$$

$$\frac{b_{1} + K_{2}}{m_{0}^{2}} = 2E_{10}\omega_{m} \Rightarrow K_{2} = 2mE_{2}\omega_{m} - b$$

$$\frac{K_{p} + K_{d} \cdot a}{m_{0}^{2}} \Rightarrow K_{p} = m\omega_{m}^{2}$$

$$\frac{K_{p} + K_{d} \cdot a}{m_{0}^{2}} \Rightarrow K_{p} = m\omega_{m}^{2}$$

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