

# Computer-controlled systems - theory and design

Prentice-Hall International - 9780133148992: Computer

$$\begin{aligned}
 & \frac{1}{(1+T)^2} & 1 - e^{-t/T} \\
 & \frac{1}{(1+T)^3} & 1 - \frac{t+T}{T} e^{-t/T} \\
 & \frac{a}{(1+a^2 + a^2)} & e^{at} \sin at \\
 & \frac{(t+a)}{(t+a^2 + a^2)} & e^{at} \cos at \\
 & \frac{a^2}{(t^2 + 2ta + t^2 + a^2)} & 1 - \frac{e^{-ta}}{\sqrt{1-t^2}} \sin(a\sqrt{1-t^2} + a), \\
 & \text{where } \cos a = \zeta & \\
 & \frac{t}{(t^2 + 2ta + t^2 + a^2)} & t - \frac{2a}{\omega_n} + \frac{1}{\omega_n \sqrt{1-\zeta^2}} e^{-ta} \sin(a\sqrt{1-\zeta^2} - \theta), \\
 & \text{where } \theta = 2\pi \tan^{-1} \frac{\sqrt{1-\zeta^2}}{\zeta} \\
 & \frac{1}{(1+T)(t^2 + a^2)} & \frac{-1}{(1+T)a_0^2} e^{-t/T} + \frac{1}{(1+T)a_0^2} \cos(a_0 t - \theta), \\
 & \text{where } \theta = \tan^{-1} a_0 T \\
 & \frac{t}{(t^2 + a^2)^2} & \frac{1}{2a^2} t \sin a_0 t \\
 & \frac{1}{(t+a^2)(t+a^2 + a^2)} & \frac{e^{-ta}}{(b-a^2) + a^2} + \frac{e^{-ta} \sin(a(t-\theta))}{a((b-a^2) + a^2)^{1/2}}, \\
 & \text{where } \theta = \tan^{-1} \frac{a}{b-a} \\
 & \frac{2abt}{[t^2 + (a+b)^2][t^2 + (a-b)^2]} & \sin at \sin bt \\
 & \frac{1 + at + b^2}{t^2(1 + T_1 t)(1 + T_2 t)} & t + (a - T_1 - T_2) + \frac{b - aT_1 + T_2^2}{T_1 - T_2} e^{-t/T_1} \\
 & & - \frac{b - aT_1 + T_2^2}{T_1 - T_2} e^{-t/T_2}
 \end{aligned}$$

Description: -

-Computer-controlled systems - theory and design

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