

Note: If G(s) includes a pure time delay larger than T, write = (N+)T+L (N: integer and L<T) and obtain G'(E) from the table.

Then  $G(E) = \frac{1}{E^{N+1}}G'(E)$ 

Hold Hold

G(s)

hpe-sl (75+1)2 L<7	$\frac{kp}{(7s+1)^2}$	$\frac{k_{p}e^{-Ls}}{(7_{1}s+1)(7_{2}s+1)} \frac{b_{1}z}{z}$ $\frac{b_{1}z}{2}$	$\frac{h_{\zeta}}{(T_{1}s+1)(T_{2}s+1)} = \frac{1}{(3s+1)(T_{2}s+1)}$	$\frac{kpc^{-LS}}{2S-1}$	15+1	e <sup>-Ls</sup> (L <t)< th=""><th>(T(s)</th></t)<>	(T(s)
b, 82+b28+b3 Z(8-p)2	$\frac{b_1z+b_2}{(z-p)^2}$	$\frac{b_1 z^2 + b_2 z + b_3}{z (z - P_1)(z - P_2)}$	$\frac{b_1 z + b_2}{(z - p_1)(z - p_2)}$	b, x + b2 Z(z-p)	b <sub>1</sub>	m- 11	G(z)
D= C-7/2 d= C1/2	P= e - T/2	$n = \frac{\tau_2}{\tau_1}$ $2 = e^{i\sqrt{\tau_2}}$	$p_1 = e^{-T/r_1}$ $p_2 = e^{-T/r_2}$ $p_3 = e^{-T/r_2}$ $p_4 = \frac{r_2}{r_1}$	$p = e^{-\eta/\tau}$ $d = e^{L/\tau}$	$P=e^{-\tau/\tau}$		Parameters
$b_1 = k_p [1 - pd (f + \frac{\pi}{2})]$ $b_2 = k_p [(1+p)fpd + \frac{\pi \cdot p \cdot d}{2} - 2p]$ $b_3 = k_p p^2 (1 - f d)$		$b_{1} = k_{p} \left[ 1 - \frac{d_{1}P_{1} - R d_{2}P_{2}}{1 - R} \right]$ $b_{2} = k_{p} \left[ \frac{P_{1}d_{1}(1+P_{2}) - RP_{3}d_{2}(1+P_{1})}{1 - R} - (P_{1}+P_{2}) \right]$ $b_{3} = k_{p}^{p} P_{2} \left( 1 - \frac{d_{1} - R d_{2}}{1 - R} \right)$	$b_{1} = k_{p} \left[ 1 - \frac{P_{1} - P_{2} - P_{2} - P_{1}}{1 - R} \right]$ $b_{2} = k_{p} \left[ P_{1} P_{2} - \frac{P_{2} - P_{1} R}{1 - R} \right]$	$b_1 = k_p (1 - pd)$ $b_2 = k_p p(d-1)$	$b_1 = k_p(1-p)$		Numerator Gefficients
$y(0) = 0$ $y(k) = k_{p} \left[ 1 - \frac{k \cdot T}{2} \right]$ $dp^{k} \left( f + \frac{k \cdot T}{2} \right)$ $\left( k \ge 1 \right)$	[[2] + 1]4d- []	$y(b) = 0$ $y(k) = k_p \left[ 1 - \frac{d_1}{l - n} P_l^k \right]$ $+ \frac{d_2 n}{l - n} P_2^k \left[ (k \ge l) \right]$	hp[1-1-1 p, k + 1-2 p2k]	y(0) = 0 $y(k) = k_p (1 - p^k_d), k \ge 1$	$kp(1-p^k)$	1 (k≥1)	Unit Step Response