Segnale Continuo	Trasformata di Laplace	Sequenza	Z-Trasformata	Segnale campionato	Z-Trasformata
$\delta(t)$	1	$\delta(k)$	1	$\delta(kT)$	1
1(<i>t</i>)	1_	1(<i>k</i>)	$\frac{z}{z-1}$	1(kT)	$\frac{z}{z-1}$
	S				
t	$\frac{1}{s^2}$	k	<u>z</u>	kT	<u>Tz</u>
	S		$\overline{(z-1)^2}$		$\overline{(z-1)^2}$
t^2	$\frac{2}{s^3}$	k^2	$\frac{z(z+1)}{(z-1)^3}$	$(kT)^2$	$T^2z(z+1)$
	s ³		$(z-1)^3$		$\overline{(z-1)^3}$
t^3	$\frac{6}{s^4}$	k^3	$z(z^2+4z+1)$	$(kT)^3$	$T^3z(z^2+4z+1)$
	s ⁴		$(z-1)^4$		$(z-1)^4$
$e^{-\alpha t}$	_1_	a^k		$e^{-\alpha kT}$	<i>z</i>
	$s+\alpha$		z-a		$z-e^{-\alpha T}$
$t e^{-\alpha t}$	1	$k a^k$	<u>az</u>	$kTe^{-\alpha kTt}$	$_{T}$ $e^{-lpha T}z$
	$(s+\alpha)^2$		$(z-a)^2$		$\frac{1}{(z-e^{-\alpha T})^2}$
$\sin(\omega_n t)$	$\underline{\hspace{1cm}}\omega_n$	$\sin(\omega_n k)$	$\sin(\omega_n)z$	$\sin(\omega_n kT)$	$\sin(T\omega_n)z$
	$\frac{\omega_n}{s^2 + \omega_n^2}$		$z^2 - 2\cos(\omega_n)z + 1$		$\overline{z^2 - 2\cos(T\omega_n)z + 1}$
$\cos(\omega_n t)$	S	$\cos(\omega_n k)$	$z[z-\cos(\omega_n)]$	$\cos(\omega_n kT)$	$z[z-\cos(T\omega_n)]$
	$\overline{s^2 + \omega_n^2}$		$\overline{z^2 - 2\cos(\omega_n)z + 1}$		$\overline{z^2 - 2\cos(T\omega_n)z + 1}$
$e^{-\zeta\omega_n t}\sin(\omega_d t)$	$\underline{\hspace{1cm}}$ ω_d	$e^{-\zeta\omega_n k}\sin(\omega_d k)$	$e^{-\zeta\omega_n}\sin(\omega_d)z$	$e^{-\zeta\omega_n kT}\sin(\omega_d kT)$	$e^{-\zeta T\omega_n}\sin(T\omega_d)z$
	$(s + \zeta \omega_n)^2 + \omega_d^2$		$\overline{z^2 - 2e^{-\zeta\omega_n}\cos(\omega_d)z + e^{-2\zeta\omega_n}}$		$\overline{z^2 - 2e^{-\zeta T\omega_n}\cos(T\omega_d)z + e^{-2\zeta T\omega_n}}$
$e^{-\zeta\omega_n t}\cos(\omega_d t)$	$s + \zeta \omega_n$	$e^{-\zeta\omega_n k}\cos(\omega_d k)$	$z[z-e^{-\zeta\omega_n}\cos(\omega_d)]$	$e^{-\zeta\omega_n kT}\cos(\omega_d kT)$	$z[z - e^{-\zeta T\omega_n}\cos(T\omega_d)]$
	$\frac{1}{(s+\zeta\omega_n)^2+\omega_d^2}$		$\overline{z^2 - 2e^{-\zeta\omega_n}\cos(\omega_d)z + e^{-2\zeta\omega_n}}$		$\overline{z^2 - 2e^{-\zeta T\omega_n}\cos(T\omega_d)z + e^{-2\zeta T\omega_n}}$





