

**Tabella dei contributi a modulo e fase
nei diagrammi di Bode asintotici**

Fattore	Contributo al modulo	Contributo alla fase
$k_b s^h \quad (k_b > 0, h = 0, 1, 2, \dots)$	$+20 h \text{ dB/dec}$	$+h \frac{\pi}{2}$
$\frac{k_b}{s^h} \quad (k_b > 0, h = 1, 2, \dots)$	$-20 h \text{ dB/dec}$	$-h \frac{\pi}{2}$
$k_b s^h \quad (k_b < 0, h = 0, 1, 2, \dots)$	$+20 h \text{ dB/dec}$	$-\pi + h \frac{\pi}{2}$
$\frac{k_b}{s^h} \quad (k_b < 0, h = 1, 2, \dots)$	$-20 h \text{ dB/dec}$	$-\pi - h \frac{\pi}{2}$
$1 + \tau s \quad (\tau > 0)$	$+20 \text{ dB/dec per } \omega > \frac{1}{\tau}$	$+\frac{\pi}{2} \text{ per } \omega > \frac{1}{\tau}$
$\frac{1}{1 + \tau s} \quad (\tau > 0)$	$-20 \text{ dB/dec per } \omega > \frac{1}{\tau}$	$-\frac{\pi}{2} \text{ per } \omega > \frac{1}{\tau}$
$1 + \tau s \quad (\tau < 0)$	$+20 \text{ dB/dec per } \omega > \frac{1}{ \tau }$	$-\frac{\pi}{2} \text{ per } \omega > \frac{1}{ \tau }$
$\frac{1}{1 + \tau s} \quad (\tau < 0)$	$-20 \text{ dB/dec per } \omega > \frac{1}{ \tau }$	$+\frac{\pi}{2} \text{ per } \omega > \frac{1}{ \tau }$
$1 + \frac{2\zeta}{\omega_n} s + \frac{s^2}{\omega_n^2} \quad (\omega_n > 0, 0 < \zeta < 1)$	$+40 \text{ dB/dec per } \omega > \omega_n$	$+\pi \text{ per } \omega > \omega_n$
$\frac{1}{1 + \frac{2\zeta}{\omega_n} s + \frac{s^2}{\omega_n^2}} \quad (\omega_n > 0, 0 < \zeta < 1)$	$-40 \text{ dB/dec per } \omega > \omega_n$	$-\pi \text{ per } \omega > \omega_n$
$1 + \frac{2\zeta}{\omega_n} s + \frac{s^2}{\omega_n^2} \quad (\omega_n > 0, -1 < \zeta \leq 0)$	$+40 \text{ dB/dec per } \omega > \omega_n$	$-\pi \text{ per } \omega > \omega_n$
$\frac{1}{1 + \frac{2\zeta}{\omega_n} s + \frac{s^2}{\omega_n^2}} \quad (\omega_n > 0, -1 < \zeta \leq 0)$	$-40 \text{ dB/dec per } \omega > \omega_n$	$+\pi \text{ per } \omega > \omega_n$