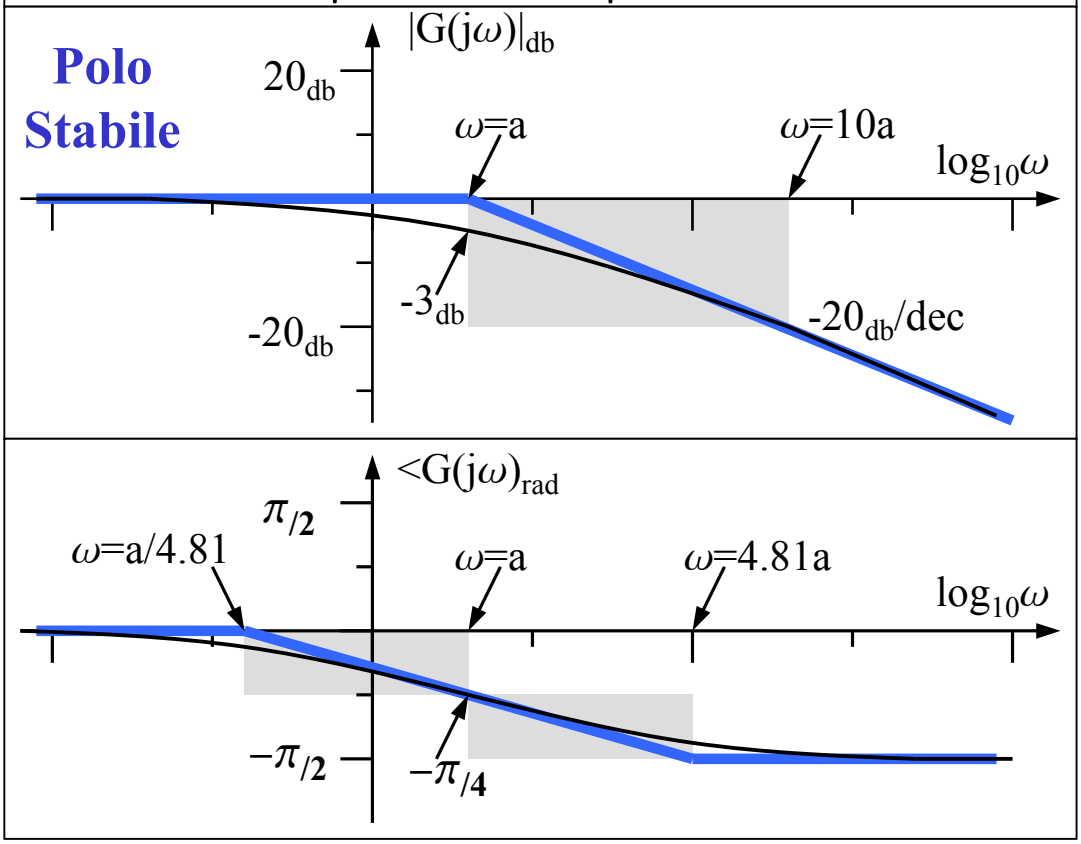
DIAGRAMMI DI BODE

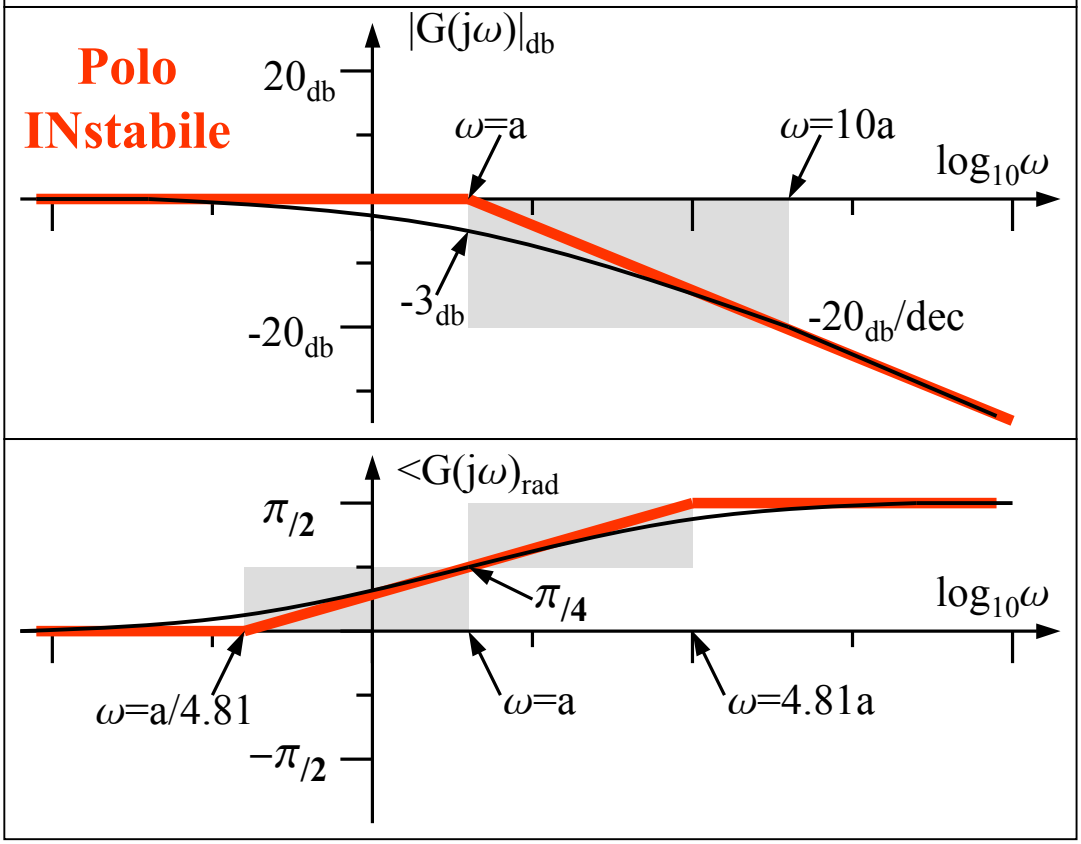
Tabella Riassuntiva

Polo Semplice	$-20_{db}/dec$	$-\pi_{/2}$	**Polo Stabile**
	$-20_{db}/dec$	$+\pi_{/2}$	**Polo INstabile**
Zero Semplice	$+20_{db}/dec$	$-\pi_{/2}$	**Zero INstabile**
	$+20_{db}/dec$	$+\pi_{/2}$	**Zero Stabile**
Poli c.c.	$-40_{db}/dec$	$-\pi$	**Poli c.c. Stabili**
	$-40_{db}/dec$	$+\pi$	**Poli c.c. INstabili**
Zeri c.c.	$+40_{db}/dec$	$-\pi$	**Zeri c.c. INstabili**
	$+40_{db}/dec$	$+\pi$	**Zeri c.c. Stabili**

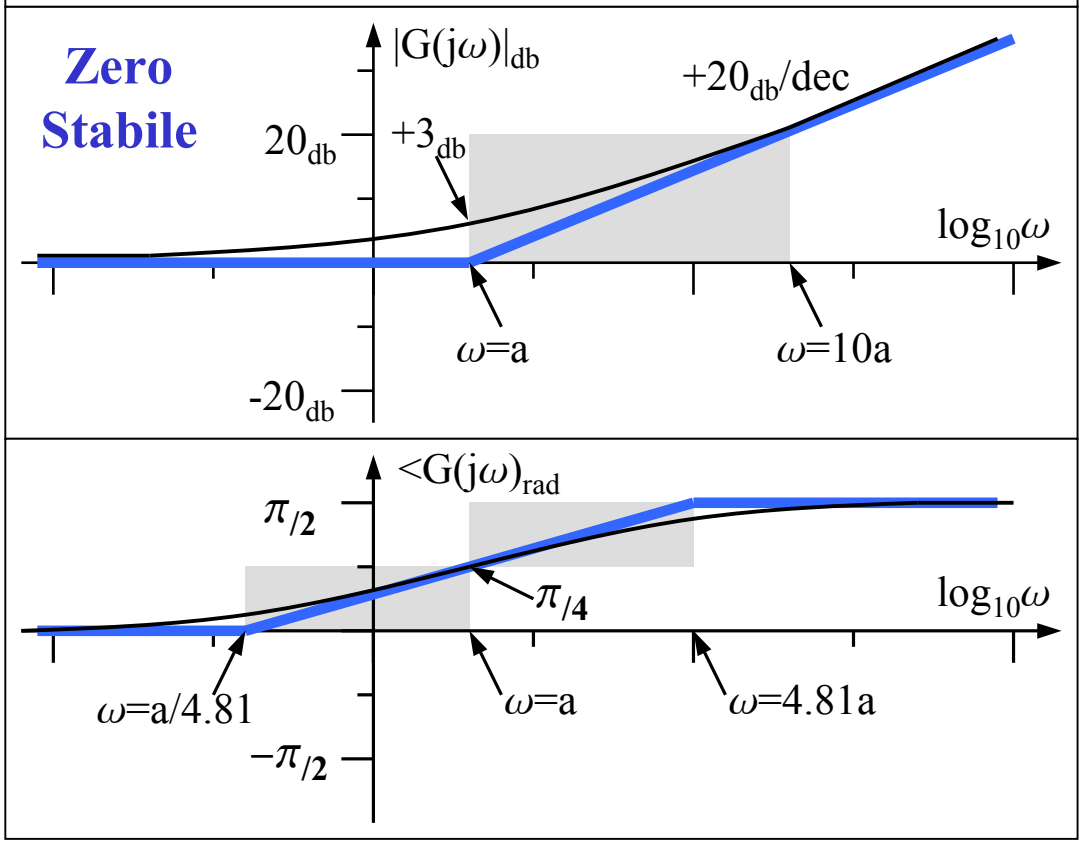
$$G(s) = \frac{1}{1+\tau\ s} = \frac{a}{s+a} \qquad a = \frac{1}{\tau} > 0$$



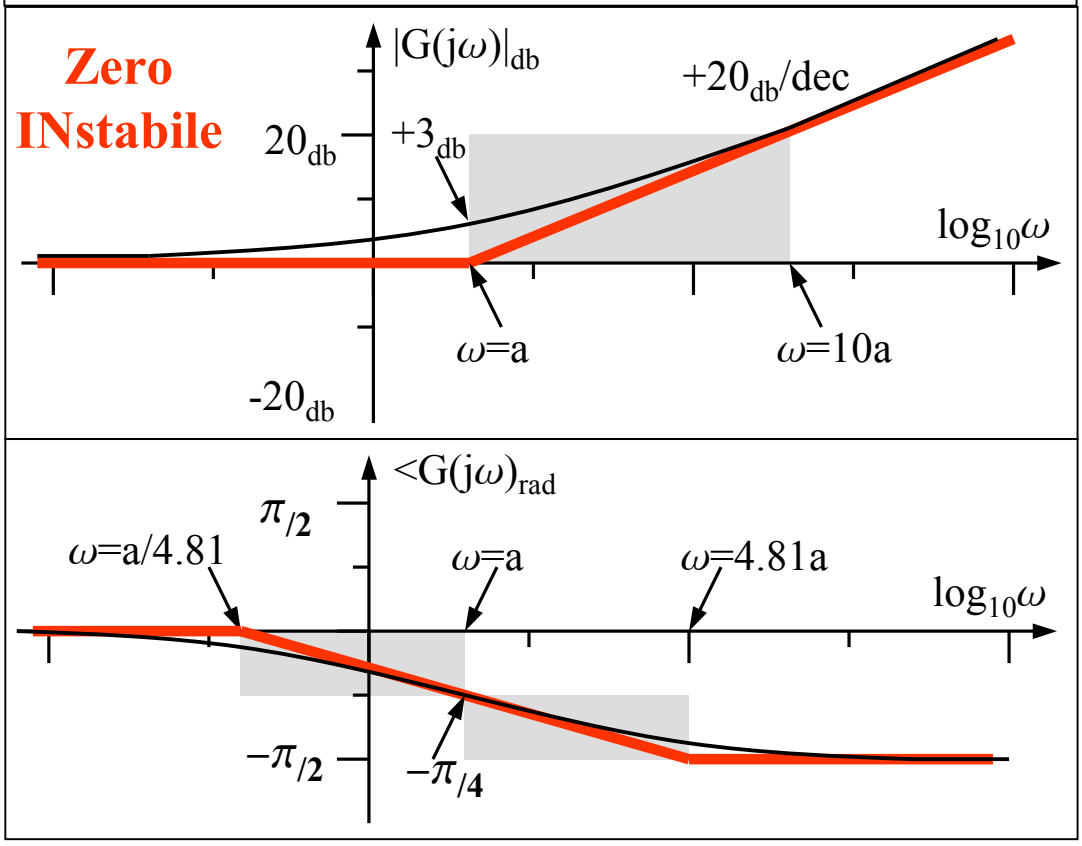
$$G(s) = \frac{1}{1-\tau\ s} = \frac{-a}{s-a} \qquad a = \frac{1}{\tau} > 0$$



$$G(s) = (1 + \tau\ s) = \frac{s + a}{a} \qquad a = \frac{1}{\tau} > 0$$

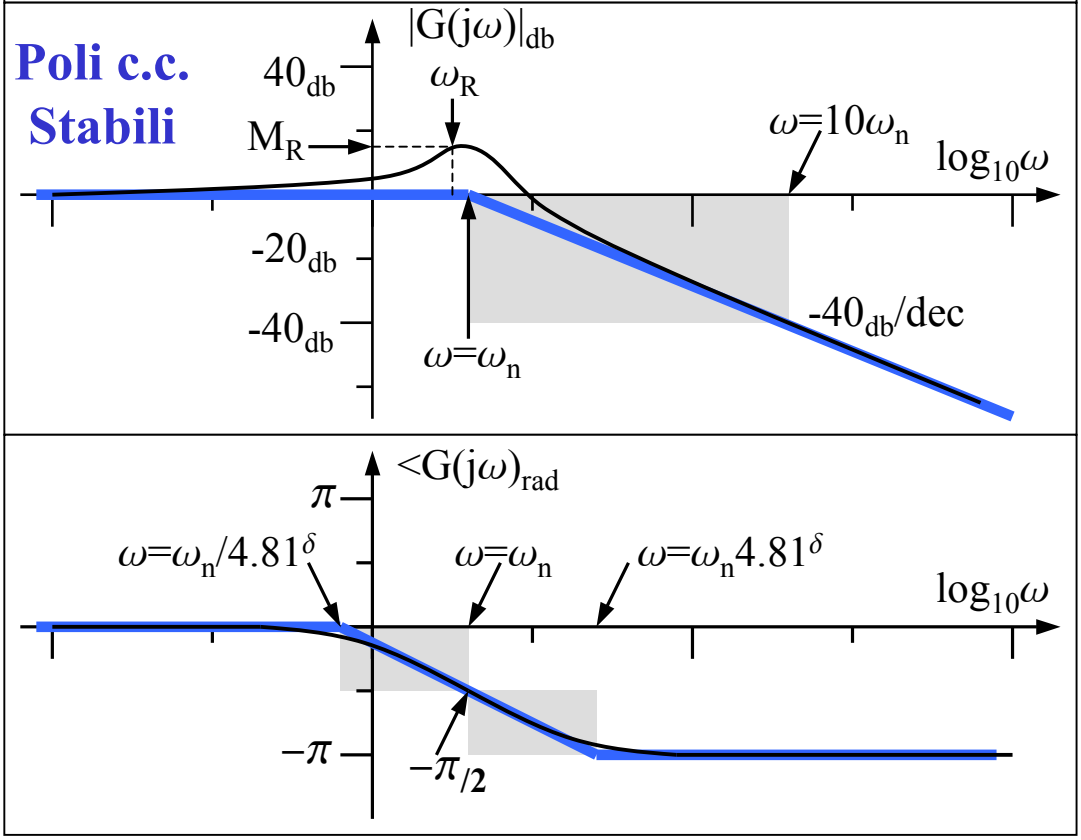


$$G(s) = (1 - \tau\ s) = \frac{a - s}{a} \qquad a = \frac{1}{\tau} > 0$$



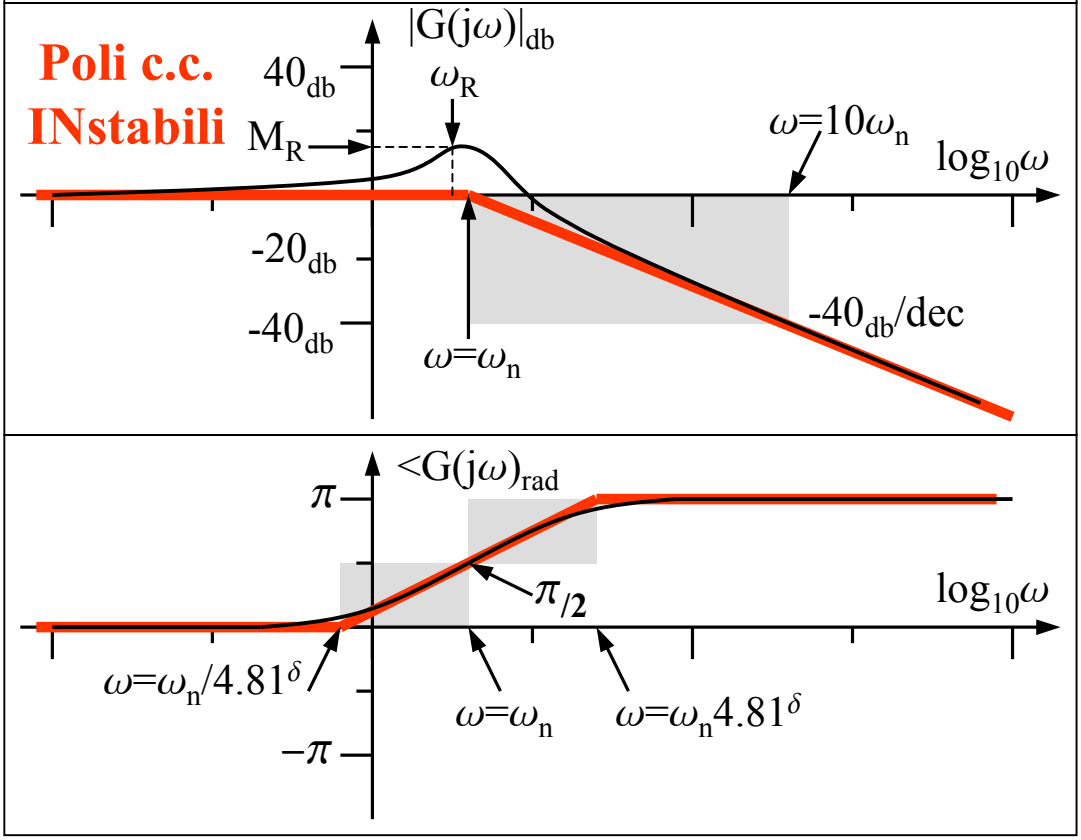
$$G(s) = \frac{\omega_n^2}{s^2 + 2\delta\omega_n s + \omega_n^2} \qquad \omega_n > 0 \qquad \delta \in [0, 1[$$

Poli c.c. Stabili



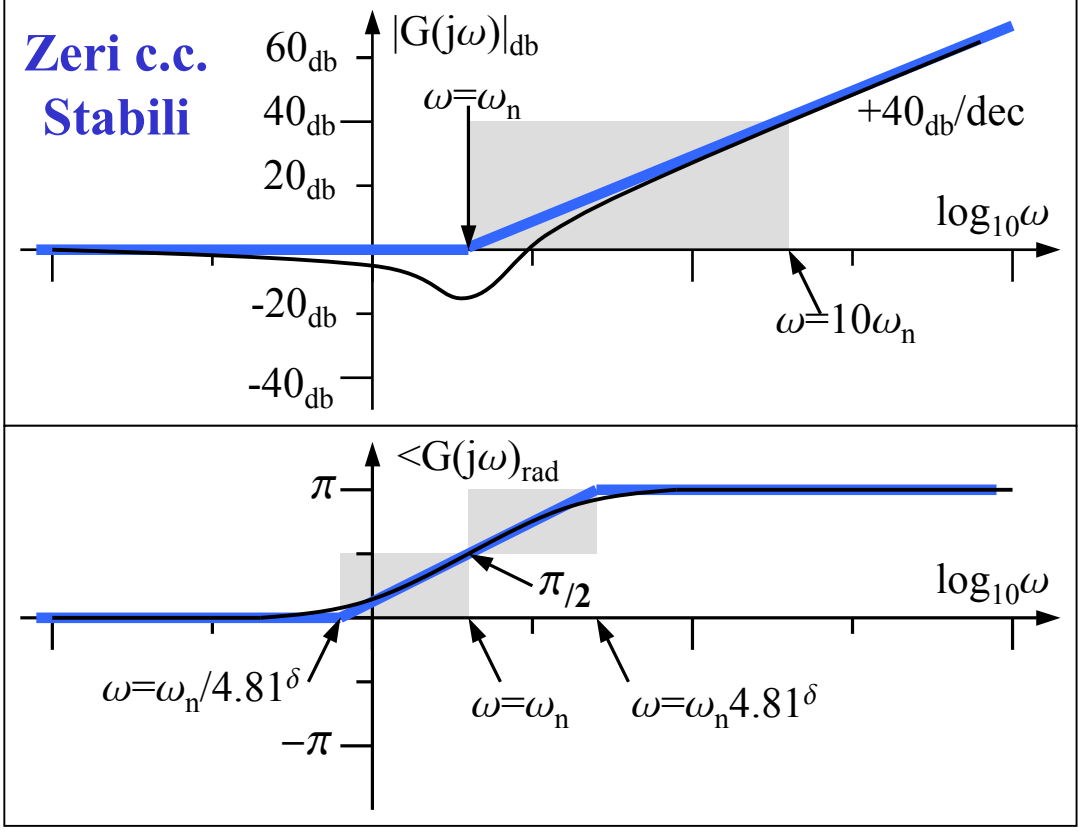
$$G(s) = \frac{\omega_n^2}{s^2 - 2\delta\omega_n s + \omega_n^2} \qquad \omega_n > 0 \qquad \delta \in [0, 1[$$

Poli c.c. INstabili



$$G(s) = \frac{s^2 + 2\delta\omega_n s + \omega_n^2}{\omega_n^2} \qquad \omega_n > 0 \qquad \delta \in [0, 1[$$

Zeri c.c. Stabili



$$G(s) = \frac{s^2 - 2\delta\omega_n s + \omega_n^2}{\omega_n^2} \qquad \omega_n > 0 \qquad \delta \in [0, 1[$$

Zeri c.c. INstabili