

SERIE

TABLA DE PARAMETROS DE CIRCUITO RLC - SERIE						
		EXPRESIÓN DE	GRÁFICA DE	EXPRESIÓN DE	GRÁFICA DE	CASO
R ⇔ Rc	ξ⇔1	$I_{(S)}$	RAICES DE I(S)	$\mathbf{i}_{(t)}$	$\mathbf{i}_{(t)}$	
R < Rc	\xi < 1	$\begin{split} I_{(s)} &= \frac{\frac{E}{L}}{\left(S + \frac{R}{2L} + j\sqrt{\frac{R^2}{4L^2} - \frac{J}{LC}}\right)^* \left(S + \frac{R}{2L} - j\sqrt{\frac{R^2}{4L^2} - \frac{J}{LC}}\right)} \\ I_{(s)} &= \frac{\frac{E}{L}}{\left(S + \alpha + j\overline{\omega}_n\right)^* \left(S + \alpha - j\overline{\omega}_n\right)} \end{split}$	j ₀ s j ₀ m σ γ	$i_{(t)} = \frac{E}{\boldsymbol{\sigma}_{m}L} (e^{-c\boldsymbol{\alpha}} \operatorname{sen} \boldsymbol{\sigma}_{m} t)$		SUB AMORTIGUADO
R = Rc	ξ=1	$I_{(S)} = \frac{\frac{E}{L}}{\left(S + \frac{R}{2L}\right)^* \left(S + \frac{R}{2L}\right)} = \frac{\frac{E}{L}}{\left(S + \frac{R}{2L}\right)^2}$ $I_{(S)} = \frac{\frac{E}{L}}{\left(S + \alpha\right)^2}$	j@ S → S → G	$i_{(t)} = \frac{E}{L} t e^{-\alpha t}$		AMORTIG. CRÍTICO
R > Rc		$I_{(S)} = \frac{\frac{E}{L}}{\left(S + \frac{R}{2L} + \sqrt{\frac{R^2}{4L^2} - \frac{I}{LC}}\right)^* \left(S + \frac{R}{2L} - \sqrt{\frac{R^2}{4L^2} - \frac{I}{LC}}\right)}$ $I_{(S)} = \frac{E}{(S + \alpha)^* (S + \beta)}$	$\begin{array}{c c} & j \omega \\ & & S \\ \hline & & \\ & -\beta & -\alpha \end{array}$	$i_{(t)} = \frac{E}{L(\alpha - \beta)} (e^{-\alpha t} - e^{-\beta t})$		SOBRE AMORTIGUADO
R = 0	ξ<0	$I_{(S)} = \frac{\frac{E}{L}}{\left(S + j\sqrt{\frac{I}{LC}}\right)^* \left(S - j\sqrt{\frac{I}{LC}}\right)}$ $I_{(S)} = \frac{\frac{E}{L}}{\left(S + J\boldsymbol{\varpi}_o\right)^* \left(S - J\boldsymbol{\varpi}_o\right)}$	j@ S x j@0	$i_{(t)} = \frac{E}{\boldsymbol{\varpi}_m L} (sen \boldsymbol{\varpi}_m)$		OSCILATORIO