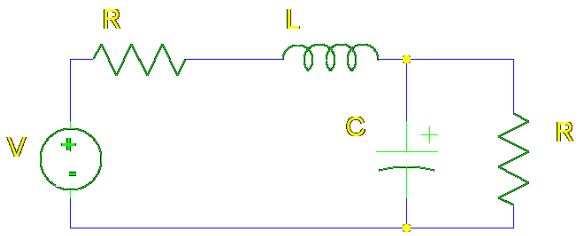

A equação deste circuito

$$H(s) = \frac{\frac{R_2}{sCR_2+1}}{sL + R_1 + \frac{R_2}{sCR_2+1}} = \frac{R_2}{(sL+R_1)(sCR_2+1)+R_2} = \frac{\frac{1}{LC}}{s^2 + s\left(\frac{R_1}{L} + \frac{1}{R_2C}\right) + \frac{1}{LC} + \frac{1}{LC}\frac{R_1}{R_2}},$$

logo os pólos de H são

$$H(s) = \frac{-\left(\frac{R_1}{L} + \frac{1}{R_2C}\right) \pm \sqrt{\left(\frac{R_1}{L} + \frac{1}{R_2C}\right)^2 - 4\frac{1}{LC}\left(1 + \frac{R_1}{R_2}\right)}}{2}$$