

$$G(s) = \frac{R}{(1+SRC)(sL)+R}$$

$$\therefore \frac{R}{s^2 LRC + sL + R}$$

multiply through by  $\frac{L}{L^3}$

$$= \frac{RL^{-2}}{s^2 RC + \frac{1}{L}s + RL^{-2}}$$