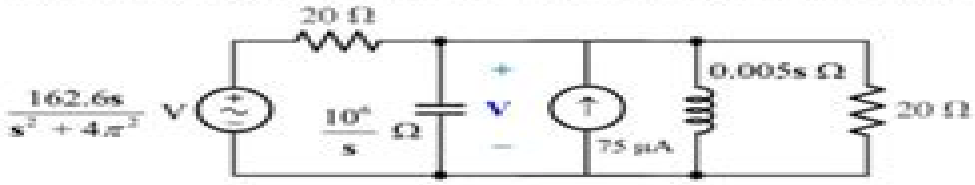
20. We model the initial energy in the capacitor as a 75-μA independent current source:



First, define $\mathbf{Z}_{eff} = 10^6/s \parallel 0.005s \parallel 20 = \dfrac{s}{10^{-6}s^2 + 0.005s + 200}\ \Omega$

Then, writing a single KCL equation, $75\times10^{-6} = \dfrac{\mathbf{V}(s)}{\mathbf{Z}_{eff}} + \dfrac{1}{20}\left(\mathbf{V}(s) - \dfrac{162.6s}{s^2+4\pi^2}\right)$

which may be solved for V(s):

$$\mathbf{V}(s) = \frac{75s\left(s^2 + 1.084\times10^5 s + 39.48\right)}{s^4 + 5.5\times10^4 s^3 + 2\times10^9 s^2 + 2.171\times10^9 s + 7.896\times10^8}$$

$$= \frac{75s\left(s^2 + 1.084\times10^5 s + 12.57\right)}{(s+51085)(s+3915)(s-j6.283)(s+j6.283)}$$

(NOTE: factored with higher-precision denominator coefficients using MATLAB to obtain accurate complex poles: otherwise, numerical error led to an exponentially growing pole i.e. real part of the pole was positive)

$$= \frac{a}{(s+51085)} + \frac{b}{(s+3915)} + \frac{c}{(s-j2\pi)} + \frac{c^*}{(s+j2\pi)}$$

where a = -91.13, b = 166.1, c = 0.1277∠89.91° and c* = 0.1277∠-89.91°.
Thus, consolidating the complex exponential terms (the imaginary components cancel),

$$v(t) = [-91.13e^{-51085t} + 166.1e^{-3915t} + 0.2554\cos(2\pi t + 89.91°)]\,u(t)\ \text{V}$$

(b) The steady-state voltage across the capacitor is $\mathbf{V} = [255.4\cos(2\pi t + 89.91°)]$ mV
This can be written in phasor notation as 0.2554 ∠89.91° V. The impedance across which this appears is $\mathbf{Z}_{eff} = [j\omega C + 1/j\omega L + 1/20]^{-1} = 0.03142\ \angle 89.91°\ \Omega$, so
$\mathbf{I}_{source} = \mathbf{V}/\mathbf{Z}_{eff} = 8.129\angle -89.91°$ A.
Thus, $i_{source} =$ 8.129 cos 2πt A.

(c) By phasor analysis, we can use simple voltage division to find the voltage division to find the capacitor voltage:

$$\mathbf{V}_C(j\omega) = \frac{(162.6\angle 0)(0.03142\angle 89.91°)}{20 + 0.03142\angle 89.91°} = 0.2554\angle 89.92°\ \text{V}$$ which agrees with our answer to (a), assuming steady state. Dividing by 0.03142 ∠89.91° Ω, we find $i_{source} = 8.129\cos 2\pi t$ A.

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