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Chapter 7 solutions

Section 7.2 First order Filters

7.1 Since it is a low-pass filter, the transfer function will be of the form:

$$H(f) = \frac{1}{1 + j(f/f_b)}$$

Where f_b is the break frequency.

$$f_b = \frac{1}{2\pi RC} = \frac{1}{2\pi \cdot \frac{1000}{5} \cdot 25 \cdot 10^{-9}} = 20 \text{ MHz}$$

$$H(f) = \frac{1}{1 + j(f/20 \cdot 10^6)}$$

7.2 The transfer function has the form of a low-pass filter:

$$H(f) = \frac{1}{1 + j(f/f_b)}$$

$$f_b = \frac{R}{2\pi L} = \frac{150 \cdot k}{2\pi \cdot 0.2} = 375 \text{ kHz}$$

$$H(f) = \frac{1}{1 + j(f/3.75 \cdot 10^5)}$$

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Raymond B. Yarbrough



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