BME 311
Biomedical Instrumentation I

13 – Notch Filter

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Notch Filter

$$\frac{V_{out}}{V_{in}} = \left(\frac{R_{ng}}{R_{ig}} + 1\right)\left(\frac{1}{\sqrt{\left(1 - \frac{f^2}{f_c^2}\right)^2 + \left(4\frac{f}{f_c}\right)^2}} + \frac{1}{\sqrt{\left(1 - \frac{f_c^2}{f^2}\right)^2 + \left(4\frac{f_c}{f}\right)^2}}\right)$$

R = 31.8k ohm, C = 0.1uF, fc= 50Hz