



University of Idaho Given that we ~~also~~ chose  $V_c$  to "optimize"  $Q_b$ , if  $Q_b = 1/\sqrt{2}$ , then

$$\frac{f_3}{f_s} = \frac{1}{\sqrt{2} Q_t}, \quad f_3 > f_s, \quad f_s = \text{free air natural frequency of the driver}$$