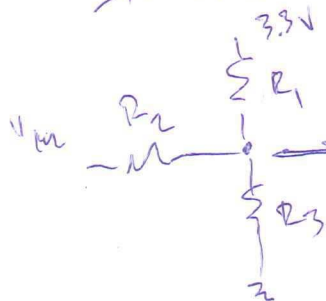


Protocol

1. Kies dag
2. Kies testpersoon
3. Kies gewricht(knie, heup, schouder, elleboog)
4. Begin bij ratio 0 dan op volgorde naar ratio 4 (0 t/m 4)
5. Kopieer gaitvariabelen_'gewricht', figuregewrichtangles.png en gewrichthoektotaal.mat naar de map met ruwe data in de DRIVE.
6. Kopieer extrema_gewricht_testpersoon_ratio naar diezelfde map in DRIVE
7. Ga koffie drinken

Kistler analog output

± 10 VDC $\Delta V = 20$ V $\rightarrow \Delta V = 3.3$ V



let $R2 = 10k$

for $V_{in} = -10$ V, $V_{A1n} = 0$ V

$$\frac{(0V) - (-10V)}{R2} = \frac{(3.3V) - (0V)}{R1} \quad R1 = 3.3k$$

for $V_{in} = +10$ V, $V_{A1n} = 3.3$ V

$$\frac{(+10V) - (3.3V)}{R2} = \frac{(3.3V) - (0V)}{R3} \quad R3 = 4.925k$$

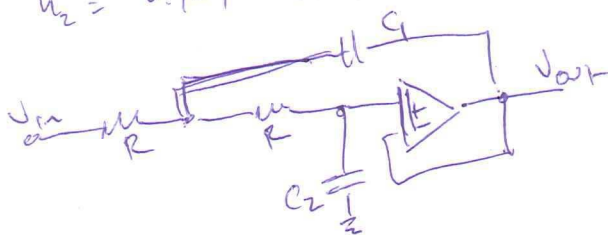
2.2 + 2.7

4th order Butterworth

Unity-gain Sallen-Key

$$h_1 = 1.082 \quad 2.613$$

$$h_2 = 0.924 \quad 0.583$$



$$f = 400 \text{ Hz}$$

$$\omega = 2\pi f$$

$$= 2\pi(400 \text{ Hz})$$

$$= 2513 \text{ rad/s}$$

$$C_1 = 33 \text{ nF} \quad C_2 = 33 \text{ nF} \quad R = 11k$$

$$C_1 = 47 \text{ nF} \quad C_2 = 68 \text{ nF} \quad R = 22k$$

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