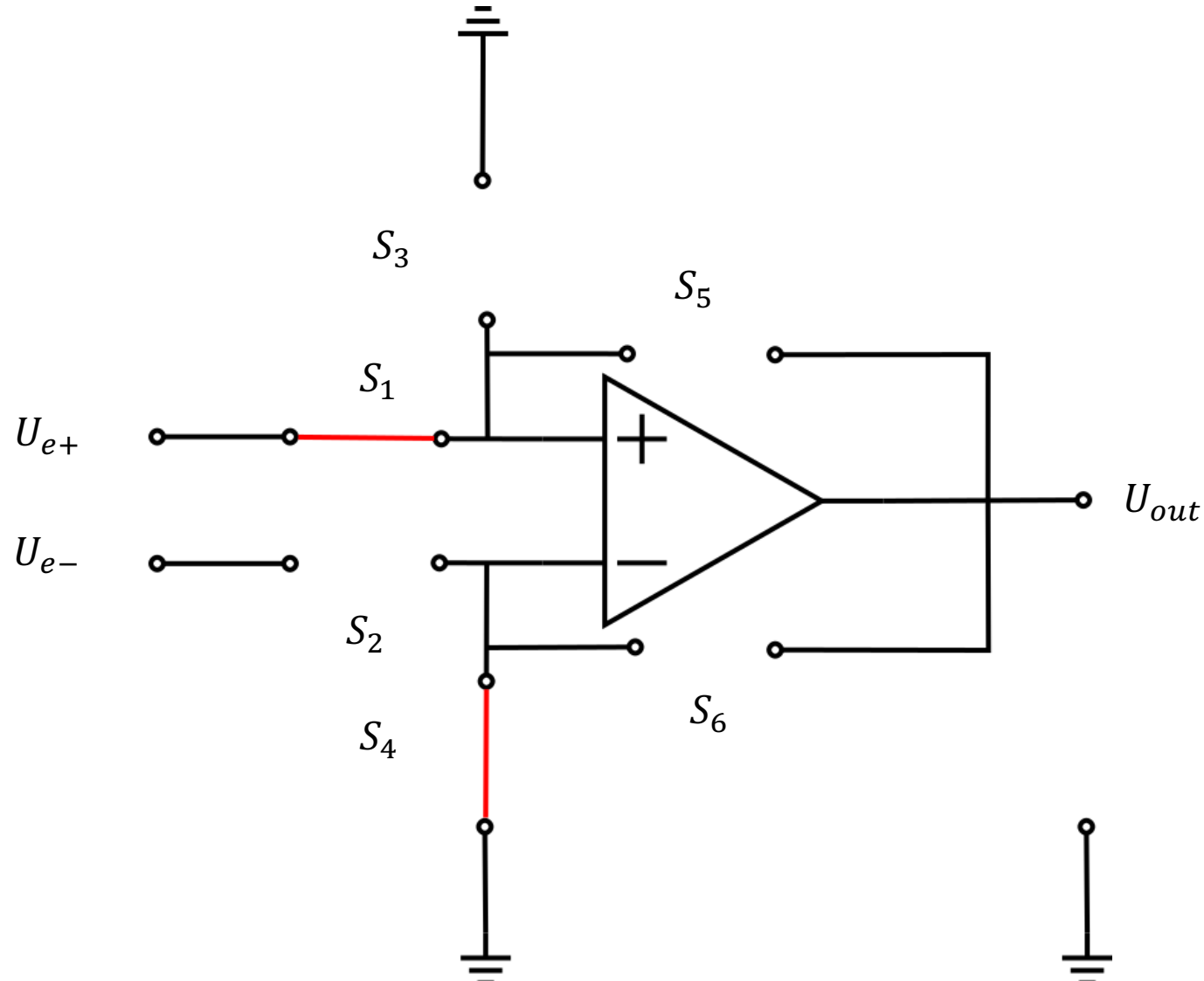


Elektrotechnik für Maschinenbauer 2

Operationsverstärker



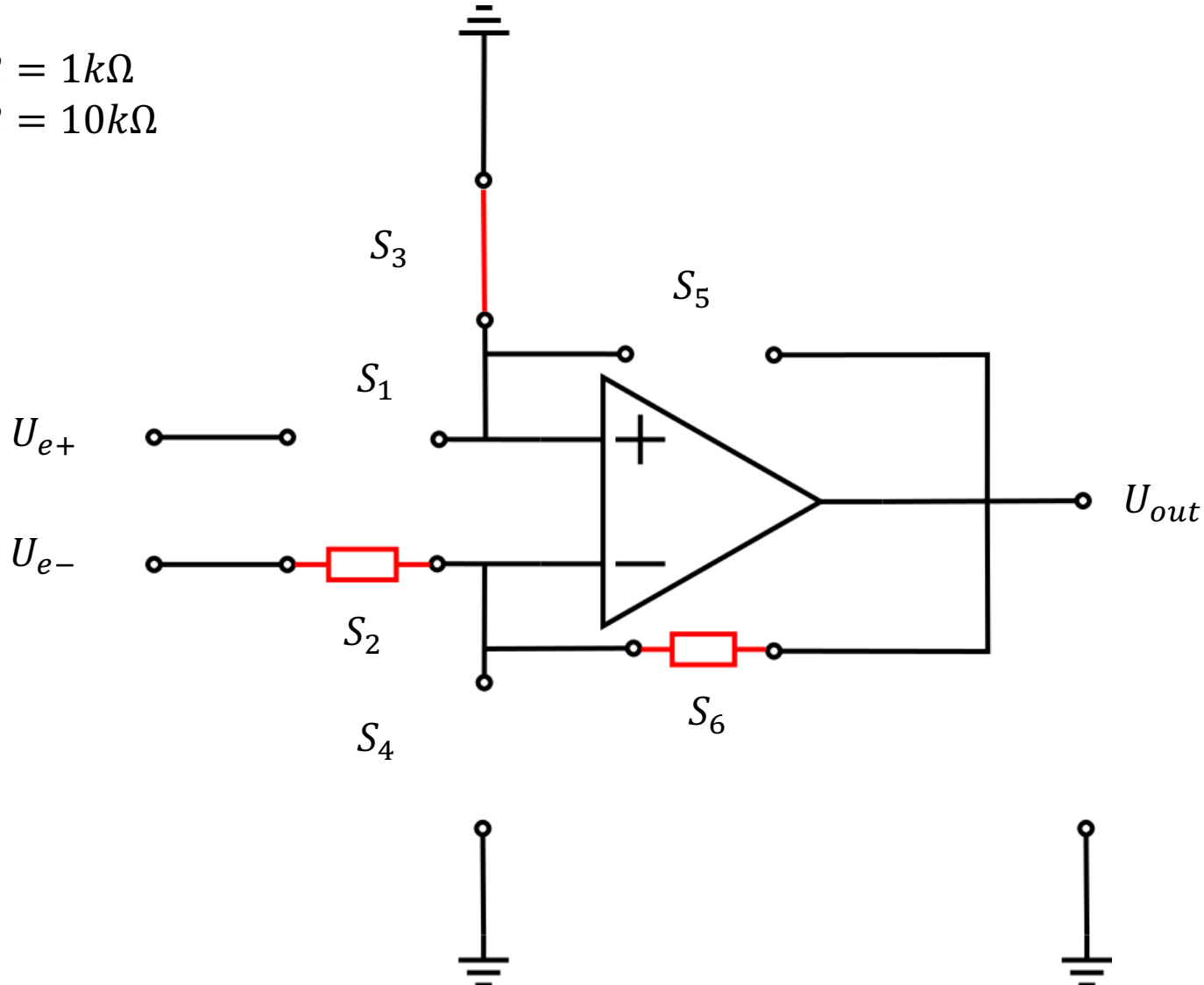
1. Kippen



2. invertierender Verstärker

$$S_2: R = 1k\Omega$$

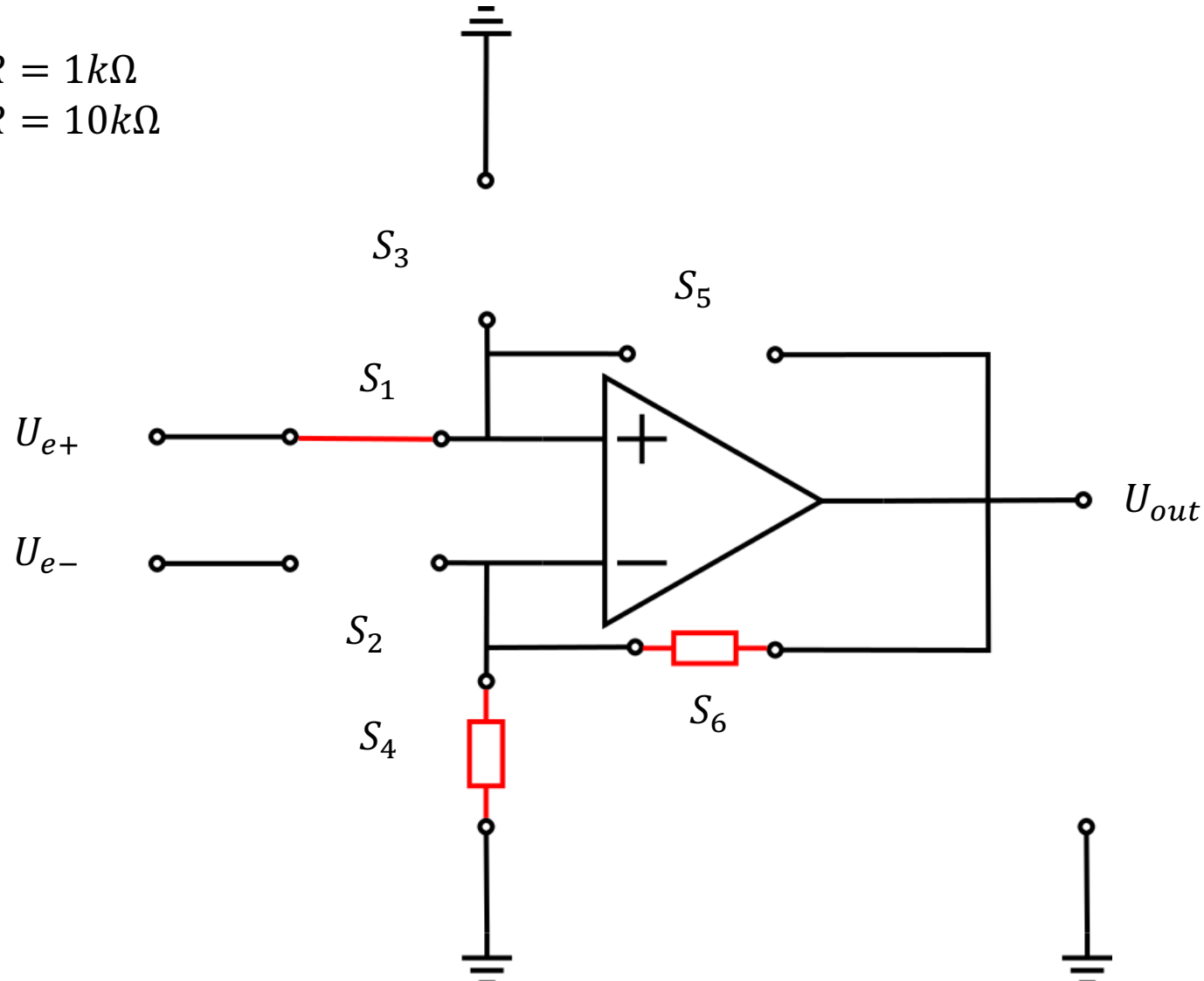
$$S_6: R = 10k\Omega$$



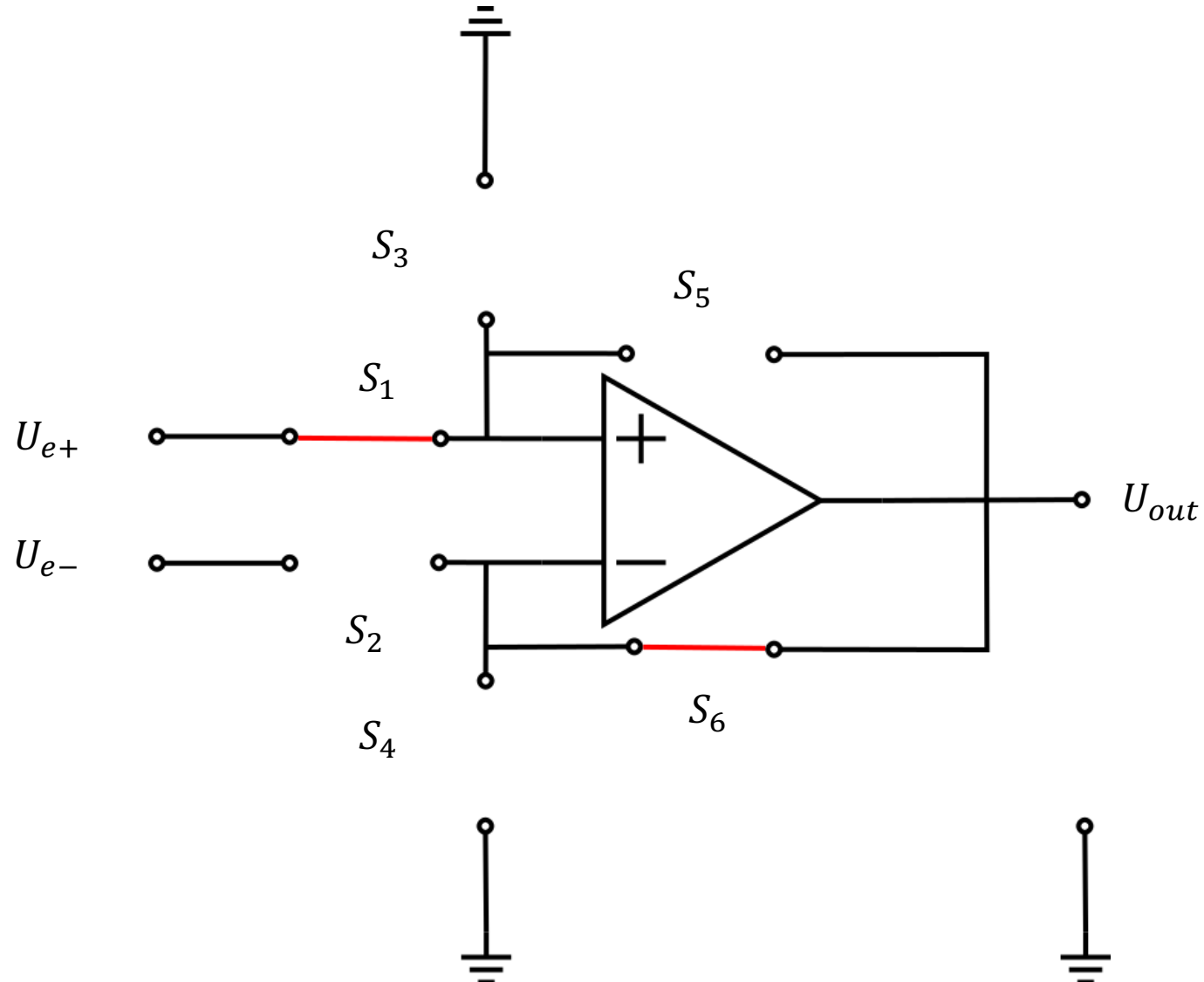
3. nichtinvertierender Verstärker

$$S_4: R = 1k\Omega$$

$$S_6: R = 10k\Omega$$



4. Spannungsfolger



5. Summierer

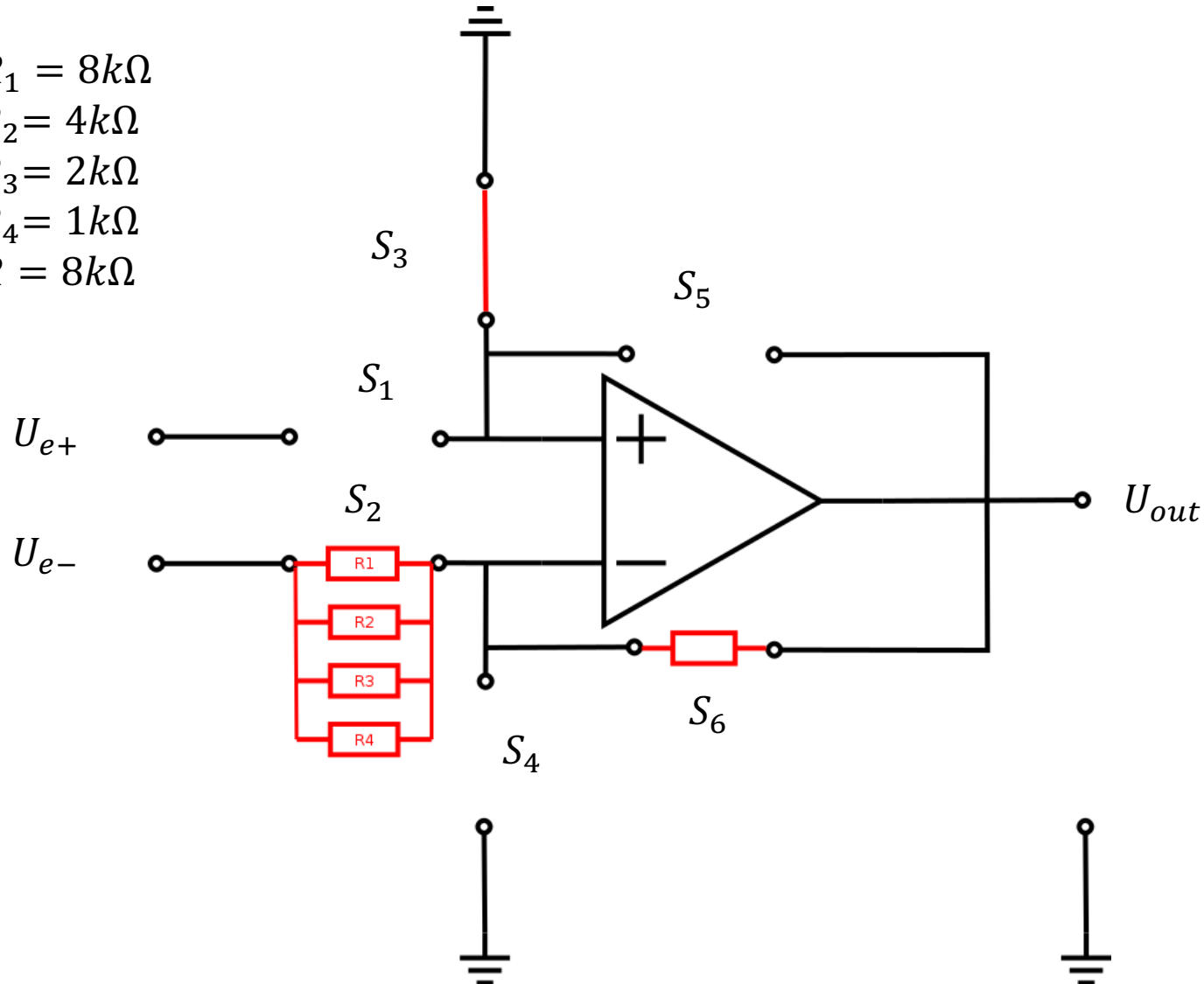
$$S_2: R_1 = 8k\Omega$$

$$R_2 = 4k\Omega$$

$$R_3 = 2k\Omega$$

$$R_4 = 1k\Omega$$

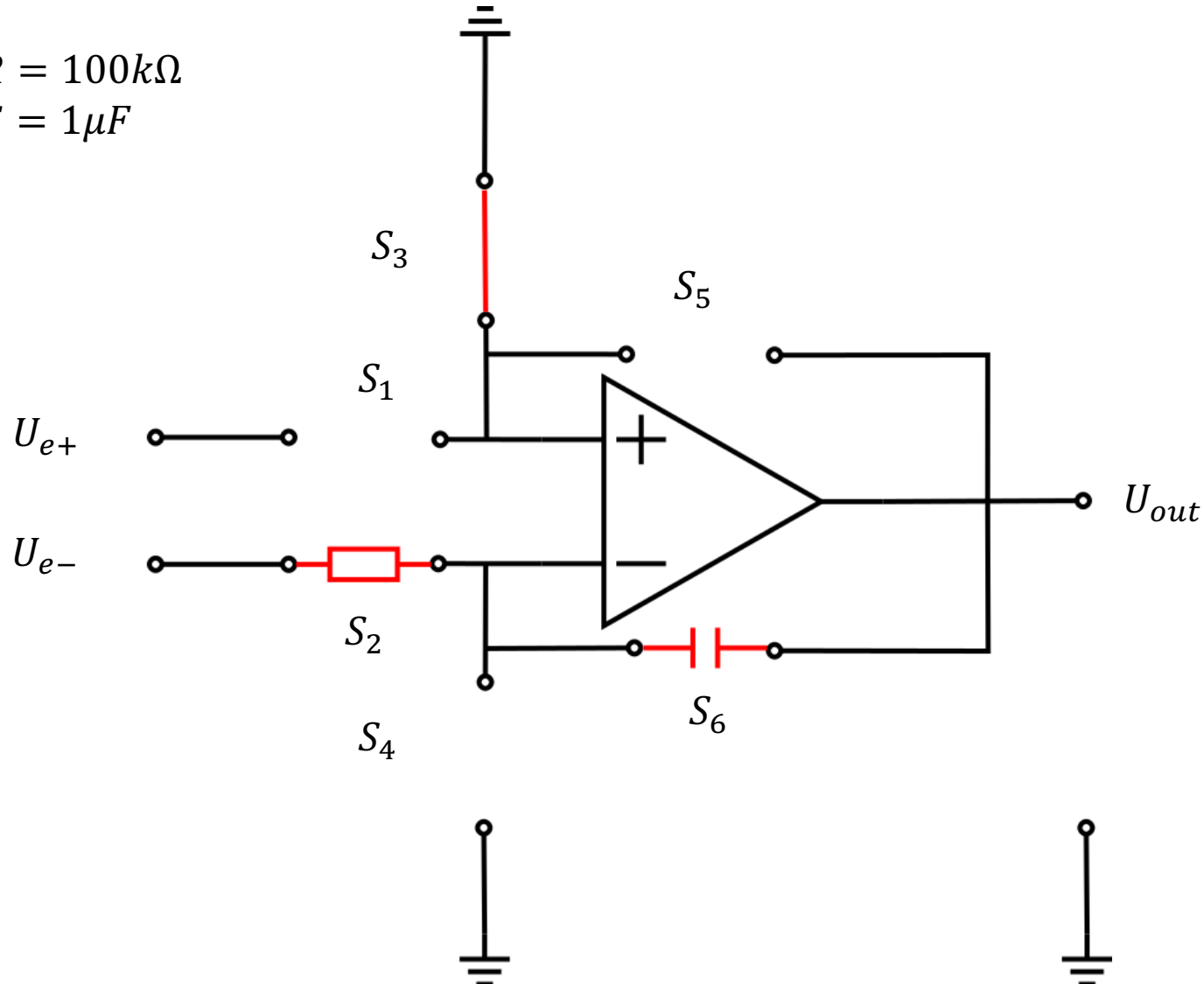
$$S_6: R = 8k\Omega$$



6. Integrierer

$$S_2: R = 100k\Omega$$

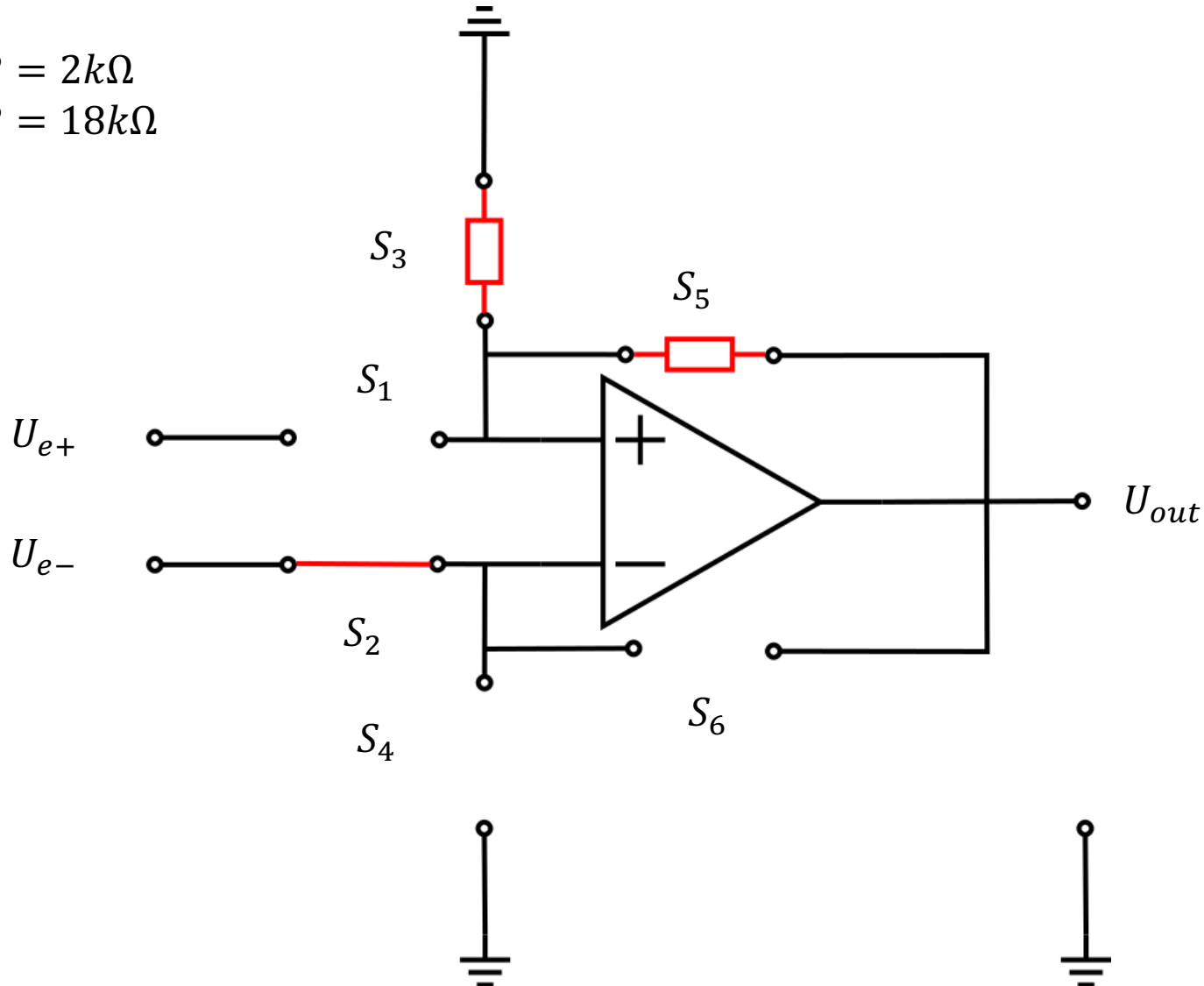
$$S_6: C = 1\mu F$$



7. Schmitt-Trigger

$$S_3: R = 2k\Omega$$

$$S_5: R = 18k\Omega$$



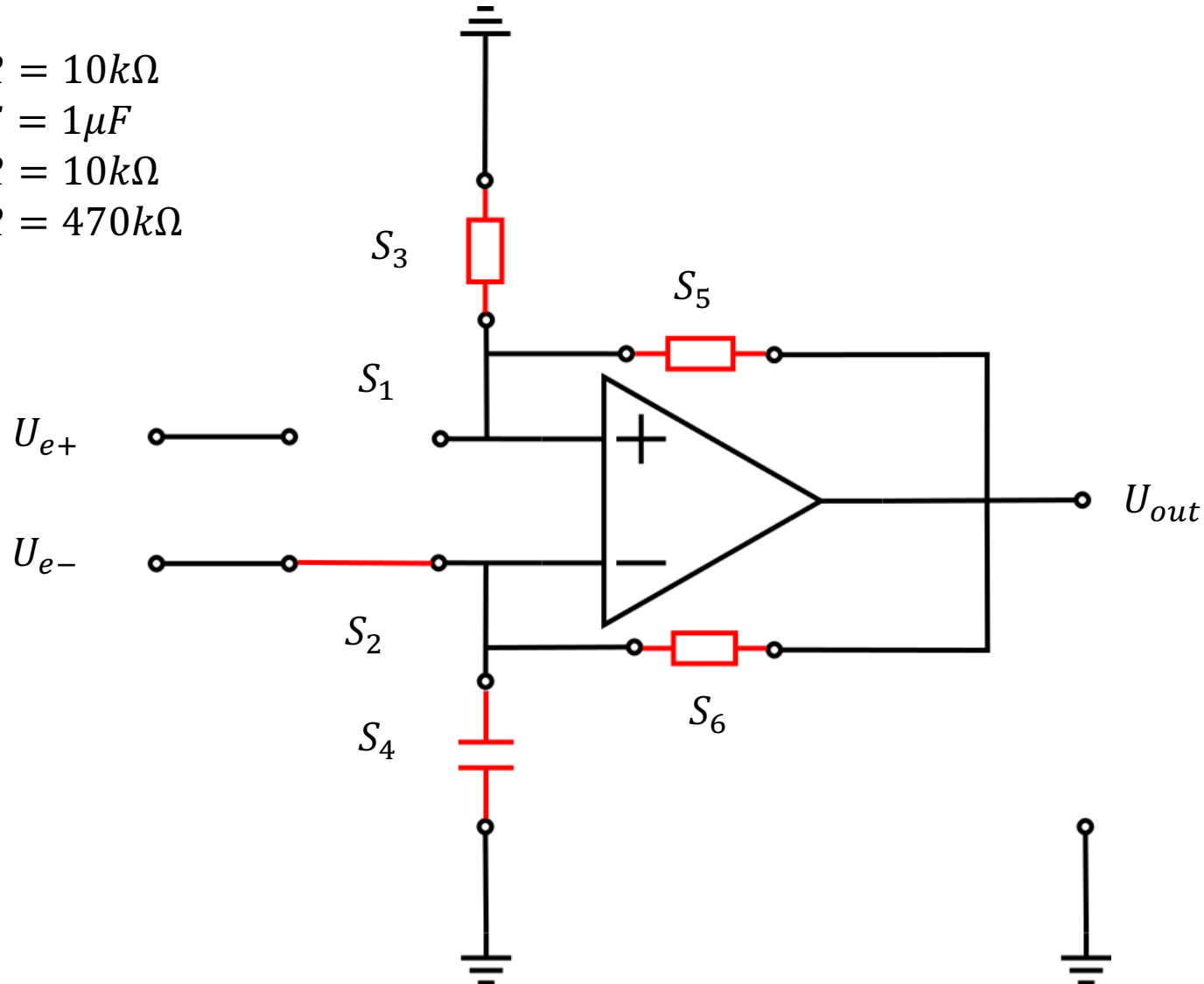
8. Schmitt-Trigger

$$S_3: R = 10k\Omega$$

$$S_4: C = 1\mu F$$

$$S_5: R = 10k\Omega$$

$$S_6: R = 470k\Omega$$



Elektrotechnik für Maschinenbauer 2

Vielen Dank für Ihre Aufmerksamkeit!

