


## Exercise 1.3-1

### Derive and Discuss numbers for $\mu$

 Calculate numerical values for the *mobility*  $\mu$  of some typical metals.

- Take [typical \(metal\) values](#) for specific conductivity  $\sigma$  and concentrations of electrons  $n$  and then *calculate* typical numbers for the mobility  $\mu$  - do not take the values from the table! If you do not understand the German link, use [this one](#).
- Consider typical field strengths for metals by picking suitable current densities, and then derive typical values for the *drift velocity*  $v_D$ .



#### Solution