

# Additional Links

## Student Group

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## Table of Contents

- Further Links** ..... 3
  - Reading material ..... 3
  - Excercise ..... 3
- Additional Links** ..... 3
  - English* ..... 3
  - German* ..... 4

1. physical values
2. introduction in structure of matter
  1. electrical charge
  2. atoms
  3. electrical conductivity in metals
  4. electrical conductivity in semiconductors and isolators
  5. examples of conductive properties (gaseous, liquid, bulk)
3. effects of electrical current
  1. thermal effects
  2. magnetic effects
  3. electromagnetic effects
  4. chemical effects
4. introduction in DC circuits
  1. simple model for voltage and current
  2. technical direction of the current
  3. the electric circuit
  4. important circuit symbols
  5. ohm's law
  6. convention for assigning directional signs
  7. Kirchhoff voltage law (Kirchhoff law for meshes)
  8. divided circuit, parallel circuit, conductance
  9. voltage divider
  10. simplification of networks
  11. superpositioning
  12. Thevenin's theorem (realistic electric sources)
  14. basic circuits
    1. example for series circuit: contact resistance given by (0) connection cable (ca. 10..20mOhm) (1) resistance of crimping, (2) resistance of contact body (e.g. with spring), (3) contact spring element (ca. 1mOhm). All three for male and female connector each
5. linear sources
  - <https://en.wikibooks.org/wiki/Electronics>

You already know V-I-R and you not only connect AC/SC with music?

Great! Then you should Go one step Further.

In this course we will investigate

- which ideal components are used in circuits and
- how they interact with each other and different types of current.

[Introduction in Electrical Engineering 1](#)

or: How to work with this course?

## Direct Current Circuits

1. [Preparation, Properties, Proportions](#)

- or: Watt is Power and Current?
- 2. [Simple Circuits](#)  
or: about Branches and Stars
- 3. [non-ideal Sources and two pole Networks](#)  
or: something lumpy with two Pins and why shots circuits may be important
- 4. [Network Analysis](#)  
Recipes for Networking
- 5. [DC Circuit Transients](#)  
oder: unfinite Charging

### Alternating Current Circuits

- 6. [Introduction in Alternating Current Technology](#)  
or: active and reactive
- 7. [Circuits under different frequencies](#)  
or: dampening and oscillating

[Tips for the exam electrical engineering 1](#)

## Further Links

### Reading material

- [Electricity and Magnetism](#): beautiful online course covering most of the parts of my course.
- [Online Brückenkurs des KIT/Uni Stuttgart](#): Nice, partly animated online script, covering chapters 1, 2, 3 and 5 (German)
- [H.Er.T.Z der HS Karlsruhe](#): The **H**ochschuloffene **E**lektrotechnik **Z**entrum of the Karlsruhe HS has a nice [online script](#) (German)
- [LeifiPhysik](#): Here you can find further explanations of our chapters on vocational school/gymnasium level. (German)

### Excercise

- In addition to the H.Er.T.Z script (see above), there are further [exercises](#).
- Further exercises will be distributed via ILIAS

## Additional Links

### English

- A great introductory script into electrical engineering can be found at [LibreText - Physics II Thermodynamics, Electricity and Magnetism](#). The content ist originally from [OpenStax](#).
- Another good introduction ist given by [HyperPhysics](#)

## German

- [simple club](#): simple club: explanatory videos on electrical engineering in the field of physics ; subscription not necessary!
- [Elektrotechnik einfach erklärt](#): still few, but well developed videos
- [Elektrotechnik in 5 Minuten](#): good fund of short videos

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