

Additional Links

Student Group

First Name	Surname	Matrikel Nr.

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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 terminal Networks](#)
or: something lumpy with two Pins and why shots circuits may be important
- 4. [Network Analysis](#)
Recipes for Networking
- 5. [Switching Operations of RC-Combinations](#)
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](#)

Weiterführende Links

Lesestoff

- [Online Brückenkurs des KIT/Uni Stuttgart](#): Schönes, teilanimiertes Onlineskript, welches die Kapitel 1, 2, 3 und 5 abdeckt
- [H.Er.T.Z der HS Karlsruhe](#): Das **H**ochschuloffene **E**lektrotechnik **Z**entrum der Karlsruher HS hat ein schönes [Online-Skript](#)
- [LeifiPhysik](#): Hier finden Sie weitere Erklärungen zu unseren Kapiteln auf Berufschul-/Gymnasial-Ebene.
- [Electricity and Magnetism](#): beautiful online course covering most of the parts of my course.

Übungsaufgaben

- Passend zum H.Er.T.Z Skript (siehe oben), gibt es noch weitere [Übungsaufgaben](#)
- Weiter Übungsaufgaben werden über ILIAS ausgeteilt

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](#): Erklär-Videos zu Elektrotechnik im Physik-Bereich ; Abo nicht notwendig!
- [Elektrotechnik einfach erklärt](#): noch wenige, aber gut entwickelte Videos
- [Elektrotechnik in 5 Minuten](#): guter Fundus an kurzen Videos

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