



Faculty of Health, Science and Technology
Physics

Course Reading

Physical electronics

Valid from 09/02/2024

Course Code: FYAD19

Course Title: Physical electronics

Credits: 7.5

Degree Level: Master's level

Books

Neamen, Donald A. *Semiconductor Physics and Devices* (4-th edition). McGraw-Hill

Misc.

Reference material

A. Smets, et al.. *Solar Energy*. England: UIT Cambridge Ltd

Christiana Honsberg, Stuart Bowden (2023). Hyperscript Semiconductors for Photovoltaics. <https://www.pveducation.org/pvcdrom/welcome-to-pvcdrom>

Goetzberger, Hoffmann. *Photovoltaic Solar Energy Generation*

H. Ibach, H. Lüth. *Solid-State Physics*. Springer

J. Nelson. *The Physics of Solar Cells*. Imperial College Press

Martin A. Green. *Solar Cells, Operating principles, Technology and System Applications*

Prof. Dr. Helmut Föll, University Kiel, Germany (2023). Hyperscript Semiconductor Physics. http://www.tf.uni-kiel.de/matwis/amat/semi_en/index.html

S. M. Sze, Kwok K. Ng. *Physics of Semiconductor Devices*. John Wiley & Sons Ltd

Approved by the Faculty Board of Health, Science and Technology 02/02/2024