



Literature for FYST65, Physics: Spectroscopy and the Quantum Description of Matter applies from spring semester 2023

Literature established by Study programmes board, Faculty of Science on
2022-06-14 to apply from 2022-06-14

See appendix.

Litteraturlista för FYST65, Fysik: Spektroskopi och materiells kvantmekaniska struktur, gällande från och med vårterminen 2023

Spektroskopi:

- Hollas J. M., *Modern Spectroscopy*, J. Wiley & Sons, 2003

Atom:

- Haken H. and Wolf H. C., *The Physics of Atoms and Quanta*, Springer, 1994
- Bransden B.H. and Joachain C.J., *Physics of Atoms and Molecules*, Pearson education, 2003

Molekyl:

- Atkins P.W. and Friedman R.S., *Molecular Quantum Mechanics*, Oxford, 2010

Fast tillstånd, yt- och nanoteknik:

- Groß A., *Theoretical Surface Science*, Springer, 2009
- Hofmann P., *Surface Physics an Introduction*, 2008
- Attard G. and Barnes C., *Surfaces*, Oxford Chemistry Primers, 1998
- Rurali R. and N. Fukata: "Fundamental Properties of Semiconductor Nanowire", Springer, 2021

Course literature for FYST65, Physics: Spectroscopy and the Quantum Description of Matter

valid from spring term 2023

Spectroscopy:

- Hollas J. M., *Modern Spectroscopy*, J. Wiley & Sons, 2003

Atom:

- Haken H. and Wolf H. C., *The Physics of Atoms and Quanta*, Springer, 1994
- Bransden B.H. and Joachain C.J., *Physics of Atoms and Molecules*, Pearson education, 2003

Molecule:

- Atkins P.W. and Friedman R.S., *Molecular Quantum Mechanics*, Oxford, 2010

Solid state, surface- and nanotechnology:

- Groß A., *Theoretical Surface Science*, Springer, 2009
- Hofmann P., *Surface Physics an Introduction*, 2008
- Attard G. and Barnes C., *Surfaces*, Oxford Chemistry Primers, 1998
- Rurali R. and N. Fukata: “Fundamental Properties of Semiconductor Nanowire”, Springer, 2021