

MODERN DEVELOPMENTS IN SOLAR AND STELLAR SPECTROSCOPY

Lectures at the Astronomical Institute, Slovak Academy of Sciences
May 17—21, 2010

Recommended books Ken Phillips

Here is a list of recommended book for the lecture course. It would be great if you could borrow at least 1 or 2 of them and skim through them before the course starts. I think it will help to understand the lectures much better. They are all English language books but there are probably equivalent German or other language books available; have a look at them also. The list is of books on spectroscopy and general solar physics.

Spectroscopy books

Atomic Spectra and Atomic Structure G. Herzberg (trans. Spinks), Dover publications, 1945.

Atomic Spectra H. G. Kuhn (2nd ed., Longman), 1971.

Astronomical Spectroscopy J Tennyson, 1999. Imperial College Press.

Ultraviolet and X-ray Spectroscopy of the Solar Atmosphere K. J. H. Phillips, U. Feldman, E. Landi, Cambridge Univ. Press, 2008.

General Solar/Stellar Physics books

Stellar Astrophysics Vol. 2 (Stellar Atmospheres), Vol. 3 (Stellar Structure and Evolution). Erika Böhm-Vitense, Cambridge Univ. Press, 1992 (both paperback).

Physics of the Solar Corona: An Introduction Markus Aschwanden, Springer/Praxis Publ. Ltd., 2004.

Solar Astrophysics (2nd revised edition) P. V. Foukal, Wiley-VCH, 2004.

Physics of the Sun: A First Course Dermott J. Mullan, CRC Press (Taylor & Francis), 2010.

Dynamic Sun Ed. B. Dwivedi, Cambridge Univ. Press, 2003. Chapters 8, 11, 18, 20.

Guide to the Sun Kenneth J. H. Phillips, Cambridge Univ Press, 1992.

The Solar Corona Leon Golub and Jay M. Pasachoff, Cambridge Univ. Press, 1997.