

Literature for the lecture **Statistical Physics MKTP 1**

In general, introductions to theoretical physics contain volumes on thermodynamics and statistical physics. Classics under these are:

L. D. Landau, E. M. Lifschitz, Bd. V, Statistische Physik, Akademie Verlag Berlin (*clear and accurate, rather for looking things up than for studying*).

A. Sommerfeld, Theoretische Physik V, Verlag Harri Deutsch, Frankfurt 1988. (*an inexpensive, old classic*).

F. Reif, Statistische Physik, Berkley Physik Kurs, Bd. 5, Vieweg, Braunschweig, 1985 (*mini-edition of the book of Reif*).

Later representations are in the respective volumes of the book series on theoretical physics of **T. Fließbach, W. Greiner, R. J. Jelitto, A. W. Nolting**.

Monographien (with similar, relevant titles, books which only treat thermodynamics without statistics were not specified)

F. Reif, de Gruyter 1976, (*the first 500 of 800 pages suffice. Well readable, many references*).

R. Becker, Heidelberger Taschenbücher, Springer 1985 (*compact, inexpensive*).

K. Huang, B.I. Mannheim 1963, Bd. 68,69,(70).

C. Kittel, H. Krömer, R. Oldenbourg München 1984. (*elementary, well readable, however, some important terms and definitions are missing*).

W. Brenig, World Scientific 1992. Springer, Heidelberg 1996 (*compact*).

A. J. Chintschin, B.I. Mannheim 1964, Bd. 58/58a (*mathematical basics*).

H. Römer, T. Filk, VCH Weinheim, 1994.

D. H. Trevana, VCH Weinheim 1995.

F. Schwabl, Springer 1999.

Further, there is still a large abundance of text books in English, whose listing goes beyond our framework.