Computersimulationen in der statistischen Physik

Allgemeine Übersicht:

J. M. Thijssen, *Computational Physics*, 2nd edition (Cambridge University Press, Cambridge, 2007).

Monte Carlo:

D. P. Landau and K. Binder, *A Guide to Monte Carlo Simulations in Statistical Physics*, 3rd edition (Cambridge University Press, Cambridge, 2009).

M. E. J. Newman and G. T. Barkema, *Monte Carlo Methods in Statistical Physics* (Oxford University Press, Oxford, 1999).

B. A. Berg, *Markov Chain Monte Carlo Simulations and Their Statistical Analysis* (World Scientific, Singapore, 2004).

Molekulardynamik:

M. P. Allen and D. J. Tildesley, *Computer Simulation of Liquids* (Oxford University Press, Oxford, 1989).

D. C. Rapaport, *The Art of Molecular Dynamics Simulation*, 2nd edition (Cambridge University Press, Cambridge, 2004).

D. Frenkel and B. Smit, *Understanding Molecular Simulation*, 2nd edition (Academic Press, San Diego, 2002).

Verschiedene Methoden:

K. Binder and C. Ciccotti (ed.), *Monte Carlo and Molecular Dynamics of Condensed Matter Systems* (Italian Physical Society, Bologna, 1996).

H. J. C. Berendsen, *Simulating the Physical World* (Cambridge University Press, Cambridge, 2007).

Technisches:

A. K. Hartmann, *Practical Guide to Computer Simulations* (World Scientific, Singapore, 2009).

W. H. Press, S. A. Teukolsky, W. T. Vetterling and B. P. Flannery, *Numerical Recipes: The Art of Scientific Computing*, 3rd edition (Cambridge University Press, Cambridge, 2007).