

Einführung in die Quantenfeldtheorie

Quantenfeldtheorie

- J.D. Bjorken, S.D. Drell, *Relativistische Quantenmechanik und Relativistische Quantenfeldtheorie*, B.I.-Wissenschaftsverlag, 1990
(out of print)
- C. Itzykson, J.B. Zuber, *Quantum Field Theory*, McGraw-Hill, 1980; Dover ed., 2006
- F. Mandl, G. Shaw, *Quantenfeldtheorie*, Aula, 1993
- M. Maggiore, *A Modern Introduction to Quantum Field Theory*, Oxford University Press, 2005
- O. Nachtmann, *Phänomene und Konzepte der Elementarteilchenphysik*, Vieweg, 1986
(out of print)
- M.E. Peskin, D.V. Schroeder, *An Introduction to Quantum Field Theory*, Addison-Wesley, 1995
- P. Ramond, *Field Theory – A Modern Primer*, Addison-Wesley, 1984; Perseus Books ed., 2001
- P. Reineker, M. Schulz, B.M. Schulz, *Theoretische Physik IV – Quantenmechanik 2*, Wiley VCH, 2008
- L.H. Ryder, *Quantum Field Theory*, Cambridge University Press, 1985; 2nd ed., 1996
- F. Schwabl, *Quantenmechanik für Fortgeschrittene (QM II)*, Springer, 5th ed., 2008
- M. Srednicki, *Quantum Field Theory*, Cambridge University Press, 2007
- G. Serman, *An Introduction to Quantum Field Theory*, Cambridge University Press, 1993

- S. Weinberg, *The Quantum Theory of Fields*, vols. 1 & 2, Cambridge University Press, 1995 (vol. 1) & 1996 (vol. 2)

Eichtheorien und Standardmodell

- I.J.R. Aitchison, A.J.G. Hey, *Gauge Theories in Particle Physics*, IOP Publishing, 1989; 3rd ed., 2002 (vol. 1) & 2004 (vol. 2)
- M. Böhm, A. Denner, H. Joos, *Gauge Theories of the Strong and Electroweak Interaction*, Teubner, 2001
- M. Chaichian, N.F. Nelipa, *Introduction to Gauge Field Theories*, Springer, 1984
- T.-P. Cheng, L.-F. Li, *Gauge Theory of Elementary Particle Physics*, Oxford University Press, 1984
- D. Ebert, *Eichtheorien*, Wiley-VCH Weinheim, 1989
- L.D. Faddeev, A.A. Slavnov, *Gauge Fields – Introduction to Quantum Theory*, Benjamin-Cummings, 1980; Addison-Wesley-Longman ed., 1991
- F. Halzen, A. Martin, *Quarks and Leptons – An Introductory Course in Modern Particle Physics*, John Wiley & Sons, 1984
- K. Huang, *Quarks, Leptons and Gauge Fields*, World Scientific, 1982; 2nd ed., 1992
- T. Kugo, *Eichtheorie*, Springer, 1997
- S. Pokorski, *Gauge Field Theories*, Cambridge University Press, 1987; 2nd ed., 2000
- C. Quigg, *Gauge Theories of the Strong, Weak and Electromagnetic Interactions*, Benjamin-Cummings, 1983
- P. Schmüser, *Feynman-Graphen und Eichtheorien für Experimentalphysiker*, Springer, 1988; 2nd ed., 1995
- K. Sibold, *Theorie der Elementarteilchen*, Teubner, 2001