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Quantum and Condensed Matter Physics Condensed matter physics is the science of the material world around us. We seek to understand how diverse complex phenomena arise when large numbers of constituents such as electrons, atoms and molecules interact with each other.

'Since the Nobel Prize-winning work of Ken Wilson in the 1970s, quantum field theory has been a fundamental tool in condensed matter theory ... Shankar presents more than enough material for a one- or two-semester course, and the book could be used to teach at a variety of levels.

Quantum Condensed Matter Physics. Theorists in quantum condensed-matter physics try to understand the behavior of complex systems of atoms and molecules. Their interests include high-temperature superconductivity, quantum phase transitions, spin systems, disorder, and other strongly correlated phenomena.

"Quantum Theory of Many-Particle Systems", Fetter & Wallecka.

Very good and cheap, specially if you want to learn Feynman diagrams applied to condensed matter physics problem. "Methods of Quantum Field Theory in Statistical Physics", Abrikosov. A Russian classic by one of the masters.

Quantum Theory of Condensed Matter

Held in October 2008, it gathered in Brussels many of the leading figures in the "quantum theory of condensed matter", addressing some of the most profound open problems in the field. The proceedings contain the "rapporteur talks" giving a broad overview with unique insights by distinguished renowned scientists.

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Condensed matter physicists seek to understand the behavior of these phases by using physical laws. In particular, they include the laws of quantum mechanics, electromagnetism and statistical mechanics.

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Quantum Theory of Condensed Matter Chair: Professor Bertrand Halperin. The 24th Solvay Conference on Physics took place in Brussels from October 11 through October 13, 2007 according to the tradition initiated by Lorentz at the 1st Solvay Conference on Physics in 1911 (Premier Conseil de Physique Solvay).

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Many-body quantum theory in condensed matter physics

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