



## Lattice Gauge Theory

By Frederic P. Miller

Alphascript Publishing. Taschenbuch. Condition: Neu. Neuware - In physics, lattice gauge theory is the study of gauge theories on a spacetime that has been discretized onto a lattice. Although most lattice gauge theories are not exactly solvable, they are of tremendous appeal because they can be studied by simulation on a computer. One hopes that, by performing simulations on larger and larger lattices, while making the lattice spacing smaller and smaller, one finally will be able to recover the behaviour of the continuum theory. In lattice gauge theory, the spacetime is Wick rotated into Euclidean space, discretized and replaced by a lattice with lattice spacing equal to  $a$ . The quark fields are only defined at the elements of the lattice. There are problems with fermion doubling, though. See Wilson-Ginsparg action. 156 pp. Englisch.



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