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Soggetti	Thermodynamics Statistical physics Dynamical systems Elementary particles (Physics) Quantum field theory Physics Quantum physics Complex Systems Elementary Particles, Quantum Field Theory Mathematical Methods in Physics Numerical and Computational Physics, Simulation Quantum Physics
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Nota di contenuto	A stochastic primer -- Computer assisted proofs -- Finite size effects at phase transitions -- High precision simulations with fast algorithms -- The present and future of lattice QCD -- Effective Field Theories -- Computers in the design and analysis of HEP experiments.
Sommario/riassunto	This is a review written by leading specialists on the state of the art of computational methods in lattice field theory. They cover a wide range: computer-assisted proofs, algorithms for computer simulation of field theories, effective field theories, computer studies of finite size effects,

simulation with fast algorithms, and computer applications in experimental particle physics. The book addresses researchers, engineers, and graduate students in particle physics.

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