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Disciplina	536.7
Soggetti	Thermodynamics Statistical physics Dynamical systems Quantum computers Spintronics Quantum physics Complex Systems Quantum Information Technology, Spintronics Quantum Physics Statistical Physics and Dynamical Systems
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Nota di contenuto	Random fields with values in Lie groups and Higgs fields -- Stochastic processes and continual measurements in quantum mechanics -- Stability and chaotic behavior of quantum rotators -- Regular and chaotic motions near resonances in quasi-integrable Hamiltonian systems -- Fluctuations in numbers of energy levels -- A Poincaré-Birkhoff-type result in higher dimensions -- Stochastic jump processes associated with Dirac equation -- Jump processes in quantum theories -- Pathwise conservation law for stationary diffusion processes -- Stochastic variational principle and diffusion processes -- Spectral fluctuations, random matrix theories and chaotic motion -- The

pathwise description of quantum scattering in stochastic mechanics -- Integral representation of covariant observables -- Some remarks on the subsequence principle in probability theory -- A route to stochastic mechanics -- Quantum fields on a gravitational background from random fields on Riemannian manifolds -- Time reversal and smoothing of infinite — dimensional diffusion processes -- On the motion of an impurity in an infinite harmonic crystal -- Quantum stochastic integration in certain partial \*-algebras -- A non-renormalizable planar field theory -- An invariant torus for nearly integrable Hamiltonian systems with infinitely many degrees of freedom -- The problem of energy partition in the light of classical perturbation theory and the possibility of introducing a critical action in the classical theory of the electromagnetic field -- On the  $\beta$  4 4 - problem -- Indeterminacy relations in stochastic mechanics -- Gibbs states and spontaneous symmetry breakdown -- Stochastic equations for some Euclidean fields -- A class of mean-field-like models of disordered systems -- The grand-canonical surface tension and its convergence to the SOS limit in the two-dimensional Ising model -- Stochastic quantization -- On measures of information for continuous stochastic processes -- Nonstandard energy forms and diffusions on manifolds and fractals -- Some results on the Euler and Vlasov-Poisson flows -- Dirichlet forms defined by Riemannian flags and applications -- A rigorous analysis of Anderson localization -- A finite approximation to boson Fock space -- An extension of Kotani's theorem to random generalized Sturm-Liouville operators II -- Pathwise calculus of variations in stochastic mechanics -- Macroscopic, intermediate, microscopic and mesons -- Field theory and the future of stochastic mechanics -- Hamiltonian models for the Madelung fluid and generalized Langevin equations -- Quantum mechanics with stochastic time dependent potentials -- Coexistence of attracting and conservative features in reversible dynamical systems -- Relationship between dynamic, quantum and classical critical phenomena -- Stable distributions: Fox function representation and generalization -- The geodesic mappings in Riemannian and pseudo-Riemannian manifolds -- Variational processes -- Levels of structure and function in neurobiology -- Forma matematica e realtà fisica.

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