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Titolo	Stochastic Processes in Classical and Quantum Systems [[electronic resource]] : Proceedings of the 1st Ascona-Como International Conference Held in Ascona, Ticino (Switzerland), June 24–29, 1985 / / edited by Sergio Albeverio, G. Casati, D. Merlini
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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 φ^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 -- Path-
 wise 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.
