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Nota di contenuto	Contents -- Preface -- Four lectures on noncommutative dynamics -- 1. Dynamical origins: Histories and interactions -- 2. Generators of dynamics and dilation theory -- 3. The role of product systems -- 4. Spectrum of an Eo-semigroup -- References -- Construction of E0-semigroups of B(h) from CP-flows -- Atomic dilations -- Strong solutions to the Dirichlet problem for differential forms: A quantum dynamical semigroup approach -- Modular invariants and their fusion rules -- A decomposition of E0-semigroups -- A duality between extension and dilation -- On the structure of spectral algebras and their generalizations -- Outer actions of a countable discrete amenable group on an AFD factor -- A construction of C* -algebras from C* -correspondences -- Classification of operator algebraic conformal field theories -- Rohlin property for flows -- Survey on a quantum stochastic extension of Stone's theorem -- Quantized convolution semigroups -- A model for quantum Markov semigroups -- A predual characterization of semi-finite von Neumann algebras -- Pure states on C* -algebras -- Commutants of von Neumann modules, representations of Ba(E) and other topics related to product

systems of Hilbert modules -- Non-commutative Brownian motions -- Non-isomorphic product systems -- Introduction -- 1. Basic notions -- 2. Some invariants -- 3. Continuous products of measure classes -- 4. Continuous products of probability spaces -- 5. Random sets, and type I I0 -- 6. Constructing random sets -- 7. Time reversal -- 8. FHS space: Logarithm of a Hilbert space -- 9. Continuous sums and off-white noises -- 10. Type III -- 11. The invariant via the logarithm -- 12. Ensuring asymptotic orthogonality -- 13. Calculating the invariant -- References -- Index.