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Nota di contenuto	Contents -- Preface -- Part I. Topological Dynamics: Abstract Theory -- Robert Ellis and the algebra of dynamical systems -- Weak mixing and pure weak mixing minimal flows -- A natural family of factors for minimal flows -- Topological ergodic decomposition and homogeneous flows -- On the proximal and regionally proximal relation of an extension between minimal flows -- Almost equicontinuity and the enveloping semigroup -- Some universal constructions in abstract topological dynamics -- Weakly almost periodic flows and hidden eigenvalues -- Enveloping linear maps -- An overview of the construction of suspension flows using continuous cocycles -- Suspensions, inheritance, and flows on homogeneous spaces -- On the lifting of transformation semigroups -- Part II. Applications and Other Dynamical Results -- Idempotent measures associated to a locally compact topological group -- Another proof of Moore's ergodicity theorem for SL(2, R) -- Multiple recurrence and doubly minimal systems -- Subset dynamics and van der Waerden's theorem -- Recurrence for semigroup actions and a non-commutative Schur theorem -- A note on LivA¡ic's periodic point theorem -- A zero-one law for dynamical properties -- Residuality and orbit equivalence -- Uncountably many Vershik-inequivalent group actions

of equal entropy -- Part III. Applications to Differential Equations -- Positive exponents for a dense set of continuous SL(2, R) valued cocycles which arise as solutions to strongly accessible linear differential systems -- Topological dynamics and differential equations -- An ergodic and topological approach to almost periodic bidimensional linear systems -- An application of topological dynamics to bifurcation theory.