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Titolo	Spaces of dynamical systems // Sergei Yu. Pilyugin
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Descrizione fisica	1 online resource (248 p.)
Collana	De Gruyter studies in mathematical physics ; ; 3
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Soggetti	Dynamics
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Dynamical systems -- Topologies on spaces of dynamical systems -- Equivalence relations -- Hyperbolic fixed point -- Hyperbolic rest point and hyperbolic closed trajectory -- Transversality -- Hyperbolic sets -- Anosov diffeomorphisms -- Smale's horseshoe and chaos -- Closing lemma -- C0-generic properties of dynamical systems -- Shadowing of pseudotrajectories in dynamical systems.
Sommario/riassunto	Dynamical systems are abundant in theoretical physics and engineering. Their understanding, with sufficient mathematical rigor, is vital to solving many problems. This work conveys the modern theory of dynamical systems in a didactically developed fashion. In addition to topological dynamics, structural stability and chaotic dynamics, also generic properties and pseudotrajectories are covered, as well as nonlinearity. The author is an experienced book writer and his work is based on years of teaching.