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web the main goal of the theory of dynamical system is the study of the global orbit structure of maps and ows in these notes we review some fundamental concepts and results in the theory of dynamical systems with an emphasis on di erentiable dynamics several important notions in the theory of dynamical systems have their roots in the work web dynamical systems mathematics johns hopkins university web linear dynamical systems and systems that have two numbers describing a state are examples of dynamical systems where the possible classes of orbits are understood the behavior of trajectories as a function of a parameter may web dynamical systems theory is an area of mathematics used to describe the behavior of complex dynamical systems usually by employing differential equations or difference equations when differential equations are employed the theory is called continuous dynamical systems web dynamical systems as little more than the study of the properties of one parameter groups of 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developed to study time space dependent problems it aims at translating a natural phenomenon into a mathematical set of equations once this basic step is performed the principal obstacle is the actual resolution of the obtained mathematical problem web dynamical systems are mainly used to model physical phenomena whose state or instantaneous description changes over time what is the main characteristic of a dynamic system the main characteristic of a dynamic system is a function that describes what future states follow from the current state web dynamical systems research develops and uses tools that describe predict and at times classify this temporal behavior simple or complicated applications in applications dynamical systems tools and methods inform modeling in the sciences they enhance our understanding of phenomena and they guide decisions in engineering and industry web differential equations and discrete dynamical systems the treatment includes theoretical proofs methods of 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