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The dynamical system

concept is a

mathematical

formalization for any

fixed "rule" which

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describes the time
dependence of a
point's position in its
ambient space.

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EQUATIONS Dynamical
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considered, at present,
as a way to describe
evolution problems

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with respect to time,
let them be given by
ordinary or partial
differential equations
or by discrete
transformations. Both
the qualitative and the
quantitative aspects of
the systems fall in this
study.

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An ordinary differential
equation (or ODE) has
a discrete (finite) set of

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variables; they often
model one-dimensional
dynamical systems,
such as the swinging of
a pendulum over time.

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In physics, a dynamical
system is described as
a "particle or ensemble
of particles whose
state varies over time
and thus obeys
differential equations
involving time

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derivatives." [3] In
order to make a
prediction about the
system's future
behavior, an analytical
solution of such
equations or their
integration over time
through computer
simulation is realized.

Dynamical system - Wikipedia

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consider a three-
dimensional
autonomous system of
nonlinear ordinary
differential equations,
which may be thought
of as a generalization. In

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mentioned type of
equations, along with

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Many physical systems are explained by an ordinary differential equation (ODE) and it is often needed to solve for a solution of the differential equation. This solution

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Equations A
will explain the

trajectory behaviour
and characteristics of
the system. Some
types of ODE can be
certainly solved
analytically such as
linear systems.

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This article is
concerned with a
generalized almost
periodic predator-prey
model with impulsive

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effects and time delays. By utilizing comparison theorem and constructing a feasible Lyapunov functional, we obtain sufficient conditions to guarantee the permanence and global asymptotic stability of the system. By applying Arzelà-Ascoli theorem, we establish the existence and uniqueness of almost ...

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(ODEs) into Mechanics.

In this case, However,
Henri Poincaré is the
father of the modern,
qualitative theory of
dynamical systems.

Dynamical systems - Scholarpedia

To study dynamical
systems
mathematically, we
represent them in
terms of differential
equations. The state of
dynamical system at
an instant of time is

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Equations A

described by a point in an n -dimensional space called the state space (the dimension n depends on how complicated the systems is - for the double pendulum below, $n=4$).

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