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~~systems~~ *Coupled*  
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**Dynamical**

**Systems –**

**Stefano Luzzatto**

**– Lecture 01**

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**Terminology, and**

**Analysis**

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**Systems**

**Introduction**



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## Approach

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~~Introduction to  
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**1A Dynamical  
Systems And  
Chaos:**

**Differential  
Equations**

**Summary Part 1**

This equation  
will change how  
you see the

world (the  
logistic map)

*Chaos Equations*

*1 Simple*

*Mathematical Art*

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*Predator-Prey  
Model  
(Lotka-Volterra  
equations)*

Nonlinear  
Dynamics \u0026  
Chaos

*Introduction to  
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*Dynamics 7.4  
Predator-Prey  
Equations*

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*stability, and  
the Jacobian  
matrix Dynamical  
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*Chaos: Welcome  
and Course*

*Overview Part 1*

*Introduction to  
System Dynamics*

*Models*

*~~Introduction to  
System Dynamics:~~*

*~~Overview~~*

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systems of  
linear ordinary  
differential  
equations -

Phase portraits

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~~Summary Part 2~~

~~Ordinary~~

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Driven Discovery  
of Dynamical  
Systems and PDEs

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systems System  
Dynamics and  
Control: Module  
3a – Modeling  
with  
Differential  
Equations**

~~Dynamical~~

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Linear Stability  
Analysis |  
Dynamical  
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equations are

the main tool

with which

1 scientists make

mathematical

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models of real  
systems. As such  
they have a  
central role in  
connecting the  
power of  
mathematics with  
a description of  
the world.

In Applied

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*Equations A*

*Dynamical*

*Page 18/54*

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Systems  
Approach  
Perko is decent  
introduction to  
dynamical  
systems, but it  
is best used  
with a few  
supplementary  
texts

(specifically,  
Smale, Hirsch  
and Devaney's  
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Equations: A

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Systems Approach

"As attention

has moved from

idealized linear

differential Texts

equations to the

nonlinear

equations of the

1 real world,

there has been a

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concomitant A

change of  
emphasis, even a  
paradigm shift,

from Approach

quantitative  
methods,

analytical and  
numerical, to Texts

qualitative  
methods.

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*Equations: A*

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*Dynamical  
Systems Approach*

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DYNAMICAL  
SYSTEMS AND  
DIFFERENTIAL  
EQUATIONS  
Dynamical

Systems can be  
considered, at  
present, as a  
way to describe  
evolution  
problems with

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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



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this study. A

## Dynamical

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## Systems

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*Equations -*

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*systems . 1991.*

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*abstract*

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By: Yang H, Shao  
C and Khashanah  
K (2019) Multi-  
scale Economic  
Dynamics,  
Computational  
Economics, 53:2,  
(587-616),

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*equations and  
dynamical  
systems | Guide  
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For this  
program, I am  
supposed to read  
through a  
textbook that we  
can discuss. Two  
of her  
suggestions were  
Nonlinear  
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Chaos by Steven  
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Devaney.

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*Differential  
Equations*

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

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Dynamical  
*Dynamical system*  
– *Wikipedia*

1.1 Differential  
equations

Differential  
equations play a  
very important  
role in

Engineering and  
Science. Many  
problems lead to  
one or several

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differential  
equations that  
must be solved.  
Most attention  
has been given  
to linear  
equations in the  
literature;  
several  
analytical  
methods have  
been developed  
to solve that  
type of



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## Dynamical *Introduction to Dynamical Systems*

In mathematics,  
stability theory  
addresses the  
stability of  
solutions of  
differential  
equations and of  
trajectories of  
dynamical

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systems under

small

perturbations of

initial

conditions. The

heat equation,

for example, is

a stable partial

differential

equation because

small

perturbations of

initial data

lead to small

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variations in temperature at a later time as a result of the maximum principle. In partial differential equations one may measure the distances between functions using  $L_p$  norms or th

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*Stability theory*  
- *Wikipedia*

Hirsch, Devaney,  
and Smale's

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Chaos has been

1 used by

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covering

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equations. It

provides a Texts

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Description of  
dynamical



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phenomena with  
differential  
equations  
Analysis of  
system behavior  
Knowledge of  
fundamental  
behavior  
patterns,  
understanding  
the connection  
with system  
structure  
Development and

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simulation of  
models for  
dynamical  
systems

Knowledge of  
numerical  
methods for  
solving systems  
of differential  
equations

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*Systems*

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students and

researchers

interested in

complex systems,

differential

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systems,

functional **Pt**

**1** analysis, and

mathematical

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physics will  
find this book  
useful for their  
studies. The

special session  
was part of the  
second USA-  
Uzbekistan

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(Uzbekistan) .

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Partial

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research in this area focuses on a range of topics in analysis ranging from the pure to the applied end.

*Dynamical Systems and Partial Differential Equations (PDEs*

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One of the most important modern theoretical developments has been the qualitative theory of differential equations, otherwise known as dynamical systems theory, which seeks to establish

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Equations A  
general  
properties of  
solutions from  
general  
principles  
without writing  
down any  
explicit  
solutions at  
all.

*Analysis*

*Dynamical*

*systems theory*

*Page 48/54*



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*and chaos / A*

*Britannica*

Types of  
dynamical

systems. The

types of  
deterministic  
dynamical

systems we will

consider here

are: Discrete-  
time dynamical

systems

(iterated

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functions) A

Cellular  
automata;

Ordinary

Differential

Equations (ODEs)

Partial

Differential

Equations (PDEs)

In these models,  
the quantities  
of interest

depend on one or  
several

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independent  
variables.  
Often, these  
variables  
include time  
and/or space.

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Local stability  
+ global  
attractivity =  
global

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stability? 3.

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theorem applied

to continuous-

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