

450000 混沌概論

(Introduction to Chaos)

一、課程說明(Course Description)

This course will introduce students to the subject of nonlinear dynamical systems.

The contents will include the following interesting subjects:

- 1)chaos,**
- 2)circle map,**
- 3)conservative systems, and**
- 4)homoclinic tangles.**

In addition, many interesting examples will be given concurrently with the aforementioned subjects.

二、指定用書(Text Books)

**Boris Hasselblatt and Anatole Katok " A first course in Dynamics"
Cambridge University Press, 2003**

三、參考書籍(References)

Devaney "An introduction to chaotic dynamical systems"

四、教學方式(Teaching Method)

lecture

五、教學進度(Syllabus)

It will follow item 1.

六、成績考核(Evaluation)

Homeworks 60%

Final exam. 40%

七、可連結之網頁位址

my webside