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2 Qualitative theory of non-smooth dynamical systems In this chapter, we give an overview of the basic theory of both smooth and non-smooth dynamical systems, to be expanded upon in later chapters.

### 2 Qualitative theory of non-smooth dynamical systems

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This book deals with the global qualitative behavior of flows and diffeomorphisms. It presents a systematic study of the fundamental theory and method of dynamical systems, from local behavior near a critical (fixed) point or periodic orbit to the global, such as global structural stability, bifurcations and chaos.

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8 1. Basic Theory of Dynamical Systems ordinates  $(r, \hat{\theta})$  in the usual way:  $x = r \cos \hat{\theta}$ ,  $y = r \sin \hat{\theta}$ . Differentiating the relation  $r^2 = x^2 + y^2$  and using the equations (1.1.10), we see that  $r \dot{r}^{\text{TM}} = x \dot{x}^{\text{TM}} + y \dot{y}^{\text{TM}} = x \dot{\hat{\theta}} y + x \dot{\hat{\theta}} x^2 - \hat{\theta} \dot{y}^2 + y \dot{x} + y \dot{\hat{\theta}} x^2 - \hat{\theta} \dot{y}^2 = r^2 \dot{\hat{\theta}} r^2$ . Thus, as long as  $r$  is not zero,  $r \dot{r}^{\text{TM}} = r^2 \dot{\hat{\theta}} r^2$ .

### Basic Theory of Dynamical Systems - cds.caltech.edu

HISTORY OF MATHEMATICS "A Short History Of Dynamical Systems Theory: 1885-2007 - Philip Holmes "Encyclopedia Of Life Support Systems (EOLSS) dimension reduction, normal form transformation and unfolding of degenerate systems.

### A Short History Of Dynamical Systems Theory: 1885-2007

1.2. NONLINEAR DYNAMICAL SYSTEMS THEORY 11 1.2 Nonlinear Dynamical Systems Theory Nonlinear dynamics has profoundly changed how scientist view the world. It had been assumed for a long time that determinism implied predictability or if the behavior of a system was completely determined, for example by

### **Dynamical Systems Theory - Bjorn Birnir**

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The theory of dynamical system interactions in discontinued dynamical systems can be used as a general principle in dynamical system networks, which is applied to dynamical system synchronization. The book represents a valuable reference work for university professors and researchers in applied mathematics, physics, mechanics, and control.

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well as modern aspects of the qualitative theory of differential equations. The course was continued with a second part on Dynamical Systems and Chaos in Winter 2000/01, and the notes were extended accordingly.

### **Ordinary Differential Equations and Dynamical Systems**

At the early stage Liao applied the ergodic theory to studying the linear part of flows and it led him to define his characteristic exponents (see this book'), Chapter 1). Let  $S$  be a  $C^1$  vector field, S., Qualitative Theory of Differentiable Dynamical System (in Chinese), Beijing: Science Press, 1996.

### **Comments on *Qualitative Theory of***

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