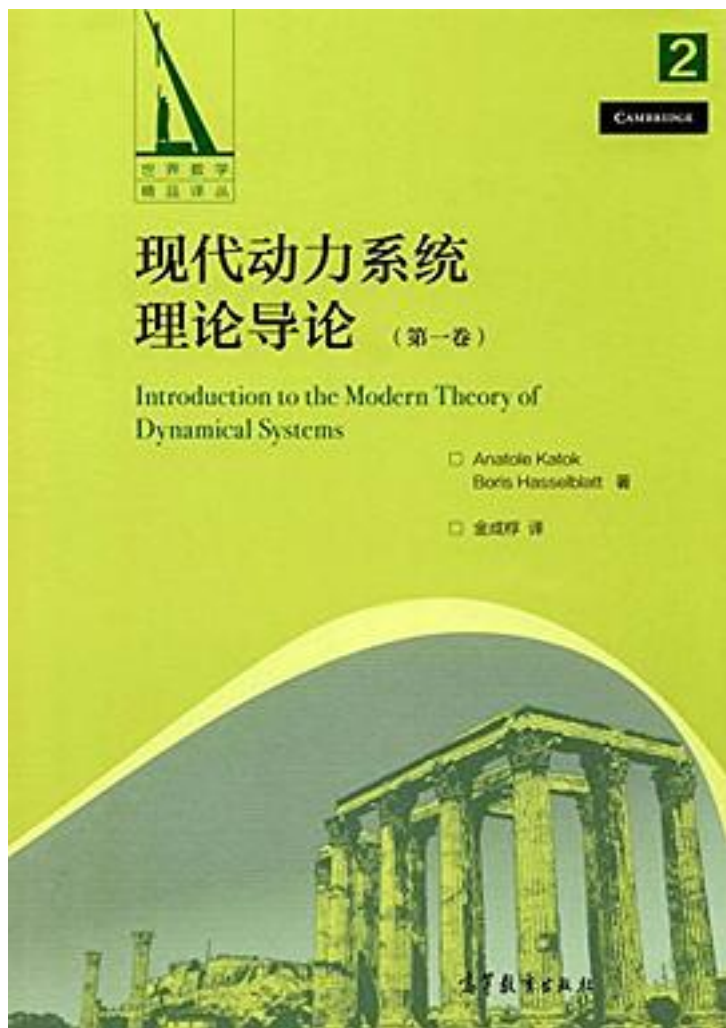


# 现代动力系统理论导论



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《现代动力系统理论导论(影印版)》 内容简介： this book provides the first

self-contained comprehensive exposition of the theory of dynamical systems as a core mathematical discipline closely intertwined with most of the main areas of mathematics. the authors introduce and rigorously develop the theory while providing researchers interested in applications with fundamental tools and paradigms.

the book begins with a discussion of several elementary but fundamental examples. these are used to formulate a program for the general study of asymptotic properties and to introduce the principal theoretical concepts and methods. the main theme of the second part of the book is the interplay between local analysis near individual orbits and the global complexity of the orbit structure. the third and fourth parts develop in depth the theories of low-dimensional dynamical systems and hyperbolic dynamical systems.

the book is aimed at students and researchers in mathematics at all levels from ad-vanced undergraduate up. scientists and engineers working in applied dynamics, non-linear science, and chaos will also find many fresh insights in this concrete and clear presentation. it contains more than four hundred systematic exercises.

作者介绍:

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## 书评

一本百科全书式的著作.  
被很多动力系统领域的学者称为bible. 内容博大精深, 一般研究人员也难以完全掌握所有内容, 多作为工具书使用. 美中不足的是成书较早, 缺少对当前个别主流研究方向的介绍, 比如刚性理论, 偏双曲及稳定遍历理论等.

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