

<<不连续及连续系统中的分岔和混沌>>

图书基本信息

书名：<<不连续及连续系统中的分岔和混沌>>

13位ISBN编号：9787040315332

10位ISBN编号：7040315335

出版时间：2011-3

出版时间：高等教育出版社

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页数：378

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内容概要

本书利用泛函分析工具来谈论混沌与分岔，并提供简明扼要的数学证明。书中通过许多有趣、经典的例子展示了其具体的应用。本书研究了大量的非线性问题，包括非线性差分方程、常微分方程和偏微分方程、脉冲微分方程、分段光滑微分方程及在无限格上的微分方程等。

本书可供对非线性机械系统的振动、弦或梁的摆动以及应用动力系统中分岔方法来研究电路等问题感兴趣的数学家、物理学家、工程师及相关专业研究生等参考。

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编辑推荐

系统介绍非线性动力系统中的混沌理论及其在力学与振动中的应用 详细讨论不连续动力系统
中的混沌与分岔 给出了简明扼要的数学证明 提供了大量有趣而直观的例子 给
出stick—slip系统混沌存在性的严格证明 将smale马蹄理论推广到了膨胀动力系统

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