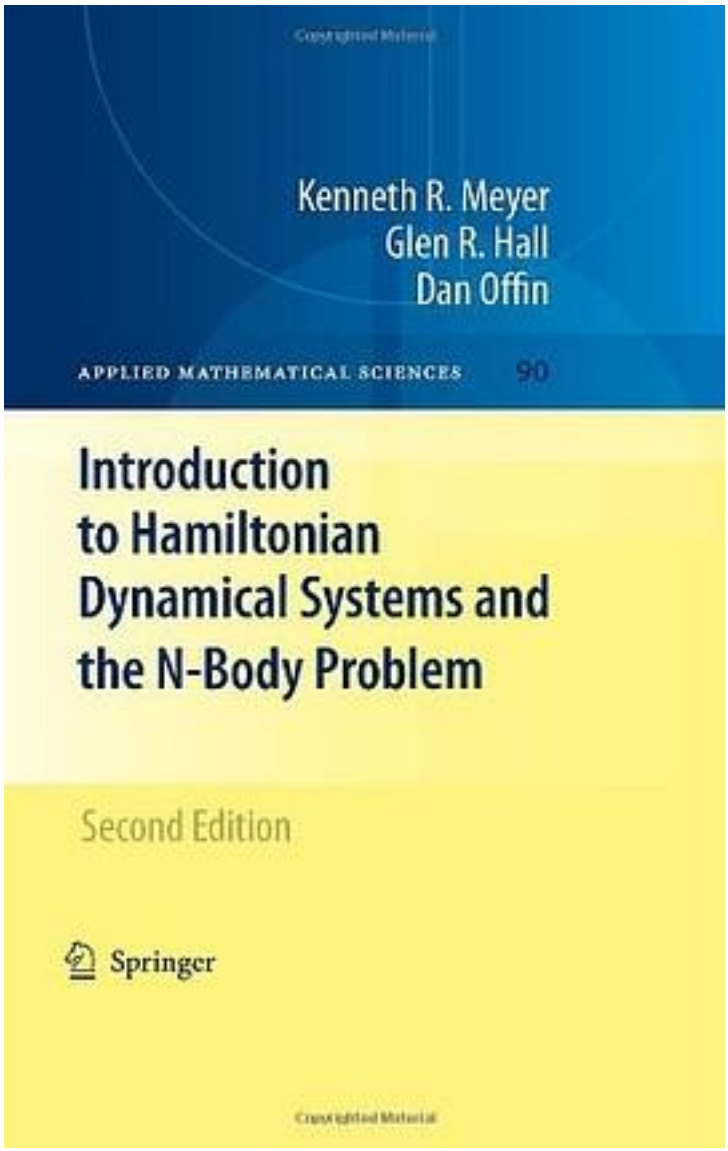
# Introduction to Hamiltonian Dynamical Systems and the N-body Problem

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著者:Meyer, Kenneth R./ Hall, Glen R./ Offin, Dan

出版者:

出版时间:2008-12

装帧:

isbn:9780387097237

This text grew out of notes from a graduate course taught to students in mathematics and mechanical engineering. The goal was to take students who had some basic knowledge of differential equations and lead them through a systematic grounding in the theory of Hamiltonian systems, an introduction to the theory of integrals and reduction. Poincare's continuation of periodic solution, normal forms, and applications of KAM theory. There is a special chapter devoted to the theory of twist maps and various extensions of the classic Poincare-Birkhoff fixed point theorem.

作者介绍:

目录:

Introduction to Hamiltonian Dynamical Systems and the N-body Problem_下载链接1_

## 标签

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## 评论

关于Hamiltonian方程的稳定性，N-body的基础知识部分写的还不错。

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## 书评

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