

《Lectures on ergodic》

图书基本信息

书名：《Lectures on ergodic theory(遍历理论讲稿)》

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内容概要

This classic book is based on lectures given by the author at the University of Chicago in 1956. The topics covered include, in particular, recurrence, the ergodic theorems, and a general discussion of ergodicity and mixing properties. There is also a general discussion of the relation between conjugacy and equivalence. With minimal prerequisites of some analysis and measure theory, this work can be used for a one-semester course in ergodic theory or for self-study. Readership Graduate students and research mathematicians interested in number theory.

Table of Contents Introduction Examples Recurrence Mean convergence Pointwise convergence Comments on the ergodic theorem Ergodicity Consequences of ergodicity Mixing Measure algebras Discrete spectrum Automorphisms of compact groups Generalized proper values Weak topology Weak approximation Uniform topology Uniform approximation Category Invariant measures Invariant measures: the solution Invariant measures: the problem Generalized ergodic theorems Unsolved problems References.

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精彩短评

- 1、经典力学到统计力学的变化：确定相空间的点状态到点邻域的集合的统计状态。统计力学目标就是研究保测变换群（流）的渐进性质。有限维欧氏空间-勒贝格测度和borel可测；局部紧拓扑群是Harr测度和borel可测性。统计力学根据离散数学观点看做格网模型的加权枚举。测度统一了离散和连续结构
- 2、很薄的小册子，非常早的关于遍历论的书，书末附有一些公开问题。

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