

图书基本信息

书名：<<泛函不等式,马尔可夫半群与谱理论>>

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## 内容概要

本书的主要内容涉及概率论、泛函分析、微分几何和统计物理等多个学科, 较系统的介绍了近十年有关泛函不等式及其近十年来的有关泛函不等式及其应用的主要研究成果和研究方法。

其中的一些成果和研究思想被国际同行专家大量引用, 引发了一系列的后续工作。

以泛函不等式为主要工具研究马氏半群及其生成元的分析与概率性质。

特别的, 使用弱不等式刻画马氏半群的各种收敛速度; 使用超不等式刻画半群一致可积性以及生成元的本征谱和高阶特征值的估计; 引入一般型可加性的不等式, 刻画马氏半群在不同意义下的指数式收敛以及概论距离的上界估计。

## 作者简介

王风雨, 博士, 1966年12月生于安徽省嘉山县。  
北京师范大学教授, 长江学者特聘教授, 博士生导师, 国家杰出青年科学基金获得者。  
曾应邀访问英国Warwick大学, 还应邀访问过美国、法国、德国、俄罗斯、日本、新加坡、意大利和台湾等国家和地区的20余所大学和研究所, 并多次在国际学术会议上作邀请报告。  
目前, 担任中国概率统计学会常务理事, 美国《数学评论》和德国《数学文摘》评论员, 《应用概率统计》等杂志的编委。  
曾经作为洪堡学者在德国Bidefeld大学工作。  
曾经获得钟嘉庆数学奖, 教育部科技进步奖一等奖, 国家自然科学基金三等奖和教育部首届高校青年教师奖, 霍英东青年教师奖研究类一等奖。  
获得北京市五四青年奖章, 入选首批新世纪百千万工程国家级人才计划, 承担国家重点基础研究发展规划“973”项目。  
研究方向涉及概率论、微分几何、统计物理和泛函分析等多个学科领域, 已发表论文近80篇, 出版专著一部。

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