《流形、张量分析和应用》

图书基本信息

书名：《流形、张量分析和应用》

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内容概要

《流形，张量分析和应用（第2版）》旨在为数学家、物理学家、工程和数学生物专业的全面介绍非线性分析的知识。书中介绍了流形、动力系统、张量和微分形式的背景知识和哈密顿力学、流体力学、电磁学、等离子动力学和控制理论等的应用。这本书起点低，读者只要了解本科生线性代数知识和高等微积分即可。
目次：拓扑；巴拿赫空间和微积分；流形和向量丛；向量域和动力系统；张量；微分形式；流形上的积分；应用。
读者对象：数学专业的高年级本科生和研究生。

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