《现代傅里叶分析》

图书基本信息

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内容概要

这部两卷集的作品旨在为读者提供学习欧几里得调和解析领域的理论基础。原始版本是以单卷集发布的，但是由于其体积、范围和新材料的增加，第二版改为两卷集发行。目前的这个版本包括了新的一章讲述时频分析和Carleson-Hunt定理。第一卷包括一些基础经典话题，包括插值、傅里叶级数、傅里叶变换、极大值函数、奇异积分和Littlewood-Paley定理。第二卷包括更多现代话题，如函数空间、原子分解、非卷积型的奇异积分和权重不等式。

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精彩短评

1、研究函数的光滑性和可微性，傅里叶变换可以度量它和调制，Littlewood-Paley 理论关键。研究欧式空间的函数的傅里叶变换的可逆性等价于环面空间的函数的傅里叶级数。引入函数振幅研究函数的间断性，也就是振荡适中的意义。连续函数振幅为0

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