

<<希尔伯特空间导论>>

图书基本信息

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## <<希尔伯特空间导论>>

### 内容概要

在数学领域，希尔伯特空间是欧几里德空间的一个推广，其不再局限于有限维的情形。与欧几里德空间相仿，希尔伯特空间也是一个内积空间，其上有距离和角的概念。此外，希尔伯特空间还是一个完备的空间，其上所有的柯西列等价于收敛列，从而微积分中的大部分概念都可以无障碍地推广到希尔伯特空间中。希尔伯特空间为基于任意正交系上的多项式表示的傅立叶级数和傅立叶变换提供了一种有效的表述方式，而这也是泛函分析的核心概念之一。希尔伯特空间是公式化数学和量子力学的关键性概念之一。

这本《希尔伯特空间导论》(作者勇)是英文导论本。

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