

<<泛函分析导论>>

图书基本信息

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内容概要

Functional analysis is primarily concerned with infinite-dimensional linear (vector) spaces, mainly function spaces whose "points" are functions, and mappings between them, usually called operators or, functionals if the range is on the real line or in the complex plane. It was invented and developed in the last years of the nineteenth century and the first few decades of the twentieth century. During the early period of its development, the original purpose of functional analysis was to use a framework which allows the study of differential and integral equations to be considered in the same formulation (cf. [6]). Later, functional analysis developed rapidly as in-depth study and interconnection on spectral theory of ordinary and partial differential equations, potential theory, Fourier expansions, and applied mathematical techniques, especially, on the influence of mathematical physics and quantum mechanics.

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