

<<现代量子力学>>

图书基本信息

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作者：J. J. Sakurai

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内容概要

本书作者Sakurai是一位杰出的理论物理学家和粒子物理学家。

本书对于量子力学概念的介绍与传统的做法不同，没有受制于量子力学发展的历史线索，力求从一开始就摆脱经典力学的束缚。

它直接从量子力学特有的电子自旋的观测实验出发，围绕其状态的概率特征和叠加原理展开对于量子力学基本概念和基本原理的阐述。

从空间平移、空间转动及时间演化等对称性变换出发，引入动量、角动量及哈密顿算符等基本力学量，讨论它们的本征值问题，它们的运动方程及与经典力学的关系，从而直接切入量子力学的核心问题。

这种被称之为“用量子力学方式来思考”的做法贯穿全书，是本书最引入瞩目之处。

国内已经出版了不少高等量子力学的教材，但与之直接对应的国外教材却并不多见。

本书从其设定的读者对象、它的选材范围以及其深度与广度来看，都非常适合这方面的要求。

如果从双语教学角度来考虑，它无疑也是理想教材的候选者。

作者简介

Jun John Sakurai, was born in 1933 in Tokyo and came to the United States as a high school student in 1949. He studied at Harvard and at Cornell, where he received his Ph.D. in 1958. He was then appointed assistant professor of Physics at the University of Chicago, and became a full professor in 1964. He stayed at Chicago until 1970 when he moved to the University of California at Los Angeles, where he remained until his death. During his lifetime he wrote 119 articles in theoretical physics of elementary particles as well as several books and monographs on both quantum and particle theory.

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