

<<简明量子场论>>

图书基本信息

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作者：徐一鸿

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## 前言

As a student, I was rearing at the bit, after a course on quantum mechanics, to learn quantum field theory, but the books on the subject all seemed so formidable. Fortunately, I came across a little book by Mandl on field theory, which gave me a taste of the subject enabling me to go on and tackle the more substantial texts. I have since learned that other physicists of my generation had similar good experiences with Mandl. In the last three decades or so, quantum field theory has veritably exploded and Mandl would be hopelessly out of date to recommend to a student now. Thus I thought of writing a book on the essentials of modern quantum field theory addressed to the bright and eager student who has just completed a course on quantum mechanics and who is impatient to start tackling quantum field theory. I envisaged a relatively thin book, thin at least in comparison with the many weighty tomes on the subject. I envisaged the style to be breezy and colloquial, and the choice of topics to be idiosyncratic, certainly not encyclopedic. I envisaged having many short chapters, keeping each chapter "bite-sized." The challenge in writing this book is to keep it thin and accessible while at the same time introducing as many modern topics as possible. A tough balancing act !

In the end, I had to be unrepentantly idiosyncratic in what I chose to cover. Note to the prospective book reviewer: You can always criticize the book for leaving out your favorite topics. I do not apologize in any way, shape, or form. My motto in this regard ( and in life as well ) , taken from the Ricky Nelson song "Garden Party," is "You can't please everyone so you gotta please yourself." This book differs from other quantum field theory books that have come out in recent years in several respects.

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### 内容概要

As a student , I was rearing at the bit , after a course on quantum mechanics , to learn quantum field theory , but the books on the subject all seemed so formidable. Fortunately , I came across a little book by Mandl on field theory , which gave me a taste of the subject enabling me to go on and tackle the more substantial texts. I have since learned that other physicists of my generation had similar good experiences with Mandl.

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作者简介

作者：(美国)徐一鸿

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