

<<超弦理论 (第2卷)>>

图书基本信息

书名：<<超弦理论 (第2卷)>>

13位ISBN编号：9787506292016

10位ISBN编号：7506292017

出版时间：2008-5

出版时间：世界图书出版公司

作者：格林

页数：596

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

<<超弦理论 ( 第2卷 ) >>

内容概要

Recent years have brought a revival of work on string theory, which has been a source of fascination since its origins nearly twenty years ago. There seems to be a widely perceived need for a systematic, pedagogical exposition of the present state of knowledge about string theory. We hope that this book will help to meet this need. To give a comprehensive account of such a vast topic as string theory would scarcely be possible, even in two volumes with the length to which these have grown. Indeed, we have had to omit many important subjects, while treating others only sketchily. String field theory is omitted entirely (though the subject of chapter 11 is closely related to light-cone string field theory). Conformal field theory is not developed systematically, though much of the background material needed to understand recent papers on this subject is presented in chapter 3 and elsewhere.

<<超弦理论 (第2卷)>>

作者简介

作者：(英国)格林(M.B.GREEN)

<<超弦理论 (第2卷)>>

书籍目录

Preface 8 One-loop diagrams in the bosonic string theory 8.1 Open-string one-loop amplitudes 8.1.1 The planar diagrams 8.1.2 The nonorientable diagrams 8.1.3 Nonplanar loop diagrams 8.2 Closed-string one-loop amplitudes 8.2.1 The torus 8.2.2 Modular invariance 8.2.3 The integration region 8.2.4 Analysis of divergences 8.2.5 The cosmological constant 8.2.6 Amplitudes with closed-string massless states 8.3 Other diagrams for unoriented strings 8.3.1 Higher-order tree diagrams 8.3.2 The real projective plane 8.3.3 Other loop diagrams 8.4 Summary 8.A Jacobi  $\theta$  functions 9 One-loop diagrams in superstring theory 9.1 Open superstring amplitudes 9.1.1 Amplitudes with  $M=4$  massless external states 9.1.2 The planar diagrams 9.1.3 Nonorientable diagrams 9.1.4 Orientable nonplanar diagrams 9.2 Type II theories 9.2.1 Finiteness of the torus amplitude 9.2.2 Compactification on a torus 9.2.3 The low-energy limit of one-loop amplitudes 9.3 The heterotic string theory 9.3.1 The torus with four external particles 9.3.2 Modular invariance of the  $E_6$ ,  $E_7$  and  $SO(32)$  theories 9.4 Calculations in the RNS formalism 9.4.1 Modular invariance and the GSO projection 9.4.2 The loop calculations 9.5 Orbifolds and twisted strings 9.5.1 Generalization of the GSO projection 9.5.2 Strings on orbifolds 9.5.3 Twisted strings in ten dimensions 9.5.4 Alternative view of the  $SO(16)$  and  $SO(16)$  theory 9.6 Summary 9.A Traces of fermionic zero modes 9.B Modular invariance of the functions  $F_2$  and  $F_4$  10 The gauge anomaly in type I superstring theory 10.1 Introduction to anomalies 10.1.1 Anomalies in point-particle field theory 10.1.2 The gauge anomaly in  $D=10$  super Yang-Mills theory 10.1.3 Anomalies in superstring theory 10.2 Analysis of hexagon diagrams 10.2.1 The planar diagram anomaly 10.2.2 The anomaly in the nonorientable diagram 10.2.3 Absence of anomalies in nonplanar diagrams 10.3 Other one-loop anomalies in superstring theory 10.4 Cancellation of divergences for  $SO(32)$  10.4.1 Dilaton tadpoles and loop divergences 10.4.2 Divergence cancellations 10.5 Summary 10.A An alternative regulator 11 Functional methods in the light-cone gauge 11.1 The string path integral 11.1.1 The analog model 11.1.2 The free string propagator 11.1.3 A lattice cutoff 11.1.4 The continuum limit 11.2 Amplitude calculations 11.2.1 Interaction vertices 11.2.2 Parametrization of scattering processes 11.2.3 Evaluation of the functional integral 11.2.4 Amplitudes with external ground states 11.3 Open-string tree amplitudes 11.3.1 The conformal mapping 11.3.2 Evaluation of amplitudes ..... 12 Some differential geometry 13 Low-energy effective action 14 Compactification of higher dimensions 15 Some algebraic geometry 16 Models of low-energy supersymmetry Bibliography Index

<<超弦理论 (第2卷)>>

章节摘录

插图：

<<超弦理论 (第2卷)>>

编辑推荐

《超弦理论(第2卷)》由世界图书出版公司出版。

<<超弦理论（第2卷）>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>