

<<超对称和超引力>>

图书基本信息

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## 前言

The strong interest with which these lectures on supersymmetry and supergravity were received at Princeton University encouraged me to make their contents accessible to a larger audience. They are not a systematic review of the subject. Instead, they offer an introduction to the approach followed by Bruno Zumino and myself in our attempt to develop and understand the structure of supersymmetry and supergravity. This book consists of two parts. The first develops a formalism which allows us to construct supersymmetric gauge theories. The second part extends this formalism to local supersymmetry transformations. At the end of each chapter, two papers are cited which I recommend to the reader. I am aware that this selection does not do justice to many authors who have contributed to the subject. However, I would like to draw attention to the more complete lists of references found in P. Fayet and S. Ferrara, *Supersymmetry*, *Physics Reports* 32C, No. 5, 1977, and P. Van Nieuwenhuizen, *Supergravity*, *Physics Reports* 68C, No. 4, 1981. Throughout the text, important equations are numbered in boldface. They are collected at the end of each chapter. Exercises are also included along with each chapter; many of them contain information essential to a deeper understanding of the subject. This book was prepared in collaboration with Jonathan Bagger, without whom it would never have been written. Both Jon and I would like to thank Winnie Waring for her devoted assistance in the preparation of the manuscript. As a tribute to her high standards, we have tried our best to avoid errors in factors and signs. Many people have helped eliminate these errors. In particular, we would like to thank Martin Muller for his assistance with the second half of the book.

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### 内容概要

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书籍目录

PREFACE TO THE SECOND EDITION  
 PREFACE  
 I. WHY SUPERSYMMETRY?  
 II. REPRESENTATIONS OF THE SUPERSYMMETRY ALGEBRA  
 III. COMPONENT FIELDS  
 IV. SUPERFIELDS  
 V. CHIRAL SUPERFIELDS  
 VI. VECTOR SUPERFIELDS  
 VII. GAUGE INVARIANT INTERACTIONS  
 VIII. SPONTANEOUS SYMMETRY BREAKING  
 IX. SUPERFIELD PROPAGATORS  
 X. FEYNMAN RULES FOR SUPERGRAPHS  
 XI. NONLINEAR REALIZATIONS  
 XII. DIFFERENTIAL FORMS IN SUPERSPACE  
 XIII. GAUGE THEORIES REVISITED  
 XIV. VIELBEIN, TORSION, AND CURVATURE  
 XV. BIANCHI IDENTITIES  
 XVI. SUPERGAUGE TRANSFORMATIONS  
 XVII. THE  $\theta=0 = 0$  COMPONENTS OF THE VIELBEIN, CONNECTION, TORSION, AND CURVATURE  
 XVIII. THE SUPERGRAVITY MULTIPLY  
 XIX. CHIRAL AND VECTOR SUPERFIELDS IN CURVED SPACE  
 XX. NEW VARIABLES AND THE CHIRAL DENSITY  
 XXI. THE MINIMAL CHIRAL SUPERGRAVITY MODEL  
 XXII. CHIRAL MODELS AND KÄHLER GEOMETRY  
 XXIII. GENERAL CHIRAL SUPERGRAVITY MODELS  
 XXIV. GAUGE INVARIANT MODELS  
 XXV. GAUGE INVARIANT SUPERGRAVITY MODELS  
 XXVI. LOW-ENERGY THEOREMS  
 APPENDIX A: Notation and Spinor Algebra  
 APPENDIX B: Results in Spinor Algebra  
 APPENDIX C: Kähler Geometry  
 APPENDIX D: Isometries and Kähler Geometry  
 APPENDIX E: Nonlinear Realizations  
 APPENDIX F: Nonlinear Realizations and Invariant Actions  
 APPENDIX G: Gauge Invariant Supergravity Models

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