

<<经典场论>>

图书基本信息

书名：<<经典场论>>

13位ISBN编号：9787506242561

10位ISBN编号：7506242567

出版时间：1999-5

出版时间：北京世图

作者：L.D.Landau and E.M.Lifshitz

页数：402

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>

<<经典场论>>

内容概要

THE first edition of this book appeared more than thirty years ago. in the course of reissues over these decades the book has been revised and expanded; its volume has almost doubled since the first edition. But at no time has there been any need to change the method proposed by Landau for developing the theory, or his style of presentation, whose main feature was a striving for clarity and simplicity. I have made every effort to preserve this style in 'the revisions that I have had to make on my own. .As compared with. the preceding edition, the first nine chapters, devoted to electrodynamics, have remained almost without changes. The chapters concerning the theory of the gravitational field have been revised and expanded. The material in this. e chapters has increased from edition to edition, and it was finally necessary to redistribute and rearrange it. ...

书籍目录

EXCERPTS FROM THE PREFACES TO THE FIRST AND SECOND EDITIONS. PREFACE TO THE FOURTH ENGLISH EDITION EDITOR ' S PREFACE TO THE SEVENTH RUSSIAN EDITION
 NOTATION CHAPTER I. THE PRINCIPLE OF RELATIVITY 1 Velocity of propagation of interaction 2 Intervals 3 Proper time 4 The Lorentz transformation 5 Transformation of velocities 6 Four-vectors 7 Four-dimensional velocity CHAPTER 2. RELATIVISTIC MECHANICS 8 The principle of least action 9 Energy and momentum 10 Transformation of distribution functions 11 Decay of particles 12 Invariant cross-section 13 Elastic collisions of particles 14 Angular momentum CHAPTER 3. CHARGES IN ELECTROMAGNETIC FIELDS 15 Elementary particles in the theory of relativity 16 Four-potential of a field 17 Equations of motion of a charge in a field 18 Gauge invariance 19 Constant electromagnetic field 20 Motion in a constant uniform electric field 21 Motion in a constant uniform magnetic field 22 Motion of a charge in constant uniform electric and magnetic fields 23 Lorentz transformation of the field 24 Invariants of the field CHAPTER 4. THE ELECTROMAGNETIC FIELD EQUATIONS 26 The first pair of Maxwell's equations 27 The action function of the electromagnetic field 28 The four-dimensional current vector 29 The equation of continuity 30 The second pair of Maxwell Equations 31 Energy density and energy flux 32 The energy-momentum tensor 33 Energy-momentum tensor of the electromagnetic field 34 The virial theorem 35 The energy-momentum tensor for macroscopic bodies CHAPTER 5. CONSTANT ELECTROMAGNETIC FIELDS CHAPTER 6. ELECTROMAGNETIC WAVES CHAPTER 7. THE PROPAGATION OF LIGHT CHAPTER 8. THE FIELD OF MOVING CHARGES CHAPTER 9. RADIATION OF ELECTROMAGNETIC WAVES CHAPTER 10. PARTICLE IN A GRAVITATIONAL FIELD CHAPTER 11. THE GRAVITATIONAL FIELD EQUATIONS CHAPTER 12. THE FIELD OF GRAVITATING BODIES CHAPTER 13. GRAVITATIONAL WAVES CHAPTER 14. RELATIVISTIC COSMOLOGY INDEX

<<经典场论>>

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>