

Quang Ho-Kim Pham Xuan Yem

Elementary Particles and Their Interactions

Concepts and Phenomena



Springer

Elementary Particles And Their Interactions Concepts And Phenomena

Collective of authors



Elementary Particles And Their Interactions Concepts And Phenomena:

Elementary Particles and Their Interactions Quang Ho-Kim,Xuan-Yem Pham,1998-09-08 The first part of this two part work is intended as an introduction to the fundamentals while the second part discusses applications from the point of view of the researcher Lively illustrations and informative tables an overview at the beginning of each chapter and exercises with solutions make this book a valuable resource

Elementary Particle Physics Otto Nachtmann,2012-12-06 This book grew how could it be otherwise out of a series of lectures which the author held at the University of Heidelberg The purpose of these lectures was to give an introduction to the phenomenology of elementary particles for students both of theoretical and experimental orientation With the present book the author has set himself the same aim The reader is assumed to be familiar with ordinary nonrelativistic quantum mechanics as presented e g in the following books Quantum Mechanics by L 1 Schiff McGraw Hill New York 1955 Quantum Mechanics Vol I by K Gottfried W A Benjamin Reading Ma 1966 The setup of the present book is as follows In the first part we present some basic general principles and concepts which are used in elementary particle physics The reader is supposed to learn here the language of particle physics An introductory chapter deals with special relativity of such fundamental importance for particle physics which most of the time is high energy i e highly relativistic physics Further chapters of this first part deal with the Dirac equation with the theory of quantized fields and with the general definitions of the scattering and transition matrices and the cross sections

Introduction to Elementary Particle Physics Robert Eugene Marshak,1961

The Nonlinear Quantum Field Theory as a Generalization of Standard Model (geometrical Approach) Alexander G. Kyriakos,2009 The author proposes a special nonlinear quantum field theory In a linear approximation this theory can be presented in the form of the Standard Model SM theory The richer physical structure of this nonlinear theory makes it possible to exceed the limits of SM and remove its known incompleteness We show that nonlinearity of the field is critical for the appearance of charges and masses of elementary particles for confinement of quarks and many other effects whose description within the framework of SM causes difficulties In this case the mechanism of generation of masses is mathematically similar to Higgs's mechanism but it is considerably simpler and does not include the additional particles The proposed theory does not examine the theory of gravity but reveals the mathematical similarity of the nonlinear field equations of both theories The book is intended for undergraduate and graduate students studying the theory of elementary particles as well as for specialists working in this field

Proceedings of IAC-SSaH 2014 Collective of authors,2014-11-10 International Academic Conference on Social Sciences and Humanities in Prague 2014 IAC SSaH 2014 in Prague

Basics of Representation Theory Udayan Bhattacharya,2025-02-20 Delve into the captivating world of Basics of Representation Theory a comprehensive guide designed for students researchers and enthusiasts eager to explore the intricate symmetries and structures that underpin modern mathematics Our book offers a detailed introduction to foundational concepts providing a solid understanding of

group actions linear representations and character theory From there it explores the algebraic structures of irreducible representations breaking down the decomposition into irreducible components and examining the properties of characters Readers will journey through diverse topics including the representation theory of symmetric groups Lie groups and algebraic groups as well as advanced topics such as the representation theory of finite groups the Langlands program and applications in quantum mechanics and number theory With a wealth of examples illustrations and exercises Basics of Representation Theory ensures a hands on approach to learning encouraging practical exploration and problem solving The book also includes numerous references and further reading suggestions for those who wish to delve deeper into specific topics Written in a clear and accessible style this book caters to all levels from undergraduate students encountering representation theory for the first time to experienced researchers seeking fresh insights With its comprehensive coverage and diverse applications Basics of Representation Theory is an invaluable resource for anyone interested in the beauty and depth of this field

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Table of Contents Elementary Particles And Their Interactions Concepts And Phenomena

1. Understanding the eBook Elementary Particles And Their Interactions Concepts And Phenomena
 - The Rise of Digital Reading Elementary Particles And Their Interactions Concepts And Phenomena
 - Advantages of eBooks Over Traditional Books
2. Identifying Elementary Particles And Their Interactions Concepts And Phenomena
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Elementary Particles And Their Interactions Concepts And Phenomena
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elementary Particles And Their Interactions Concepts And Phenomena
 - Personalized Recommendations
 - Elementary Particles And Their Interactions Concepts And Phenomena User Reviews and Ratings
 - Elementary Particles And Their Interactions Concepts And Phenomena and Bestseller Lists
5. Accessing Elementary Particles And Their Interactions Concepts And Phenomena Free and Paid eBooks

- Elementary Particles And Their Interactions Concepts And Phenomena Public Domain eBooks
 - Elementary Particles And Their Interactions Concepts And Phenomena eBook Subscription Services
 - Elementary Particles And Their Interactions Concepts And Phenomena Budget-Friendly Options
6. Navigating Elementary Particles And Their Interactions Concepts And Phenomena eBook Formats
 - ePub, PDF, MOBI, and More
 - Elementary Particles And Their Interactions Concepts And Phenomena Compatibility with Devices
 - Elementary Particles And Their Interactions Concepts And Phenomena Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Elementary Particles And Their Interactions Concepts And Phenomena
 - Highlighting and Note-Taking Elementary Particles And Their Interactions Concepts And Phenomena
 - Interactive Elements Elementary Particles And Their Interactions Concepts And Phenomena
 8. Staying Engaged with Elementary Particles And Their Interactions Concepts And Phenomena
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Elementary Particles And Their Interactions Concepts And Phenomena
 9. Balancing eBooks and Physical Books Elementary Particles And Their Interactions Concepts And Phenomena
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Elementary Particles And Their Interactions Concepts And Phenomena
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Elementary Particles And Their Interactions Concepts And Phenomena
 - Setting Reading Goals Elementary Particles And Their Interactions Concepts And Phenomena
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Elementary Particles And Their Interactions Concepts And Phenomena
 - Fact-Checking eBook Content of Elementary Particles And Their Interactions Concepts And Phenomena
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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