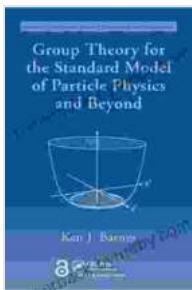


Group Theory for the Standard Model of Particle Physics and Beyond

A Comprehensive Guide

Group theory is a branch of mathematics that studies the structure and properties of groups, which are sets of elements that can be combined in certain ways. It has applications in many fields, including physics, chemistry, and computer science.



Group Theory for the Standard Model of Particle Physics and Beyond (Series in High Energy Physics, Cosmology and Gravitation) by Ken J. Barnes

★★★★☆ 4.6 out of 5

Language : English

File size : 5062 KB

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Print length : 255 pages



In particle physics, group theory is used to classify subatomic particles and to understand the fundamental forces of nature. The Standard Model of particle physics is a theory that describes the interactions of all known subatomic particles. It is based on the symmetries of the universe, which are described by group theory.

This book provides a comprehensive to group theory for particle physicists, with a focus on the Standard Model of particle physics and beyond. It covers a wide range of topics, including:

- The basics of group theory
- The Standard Model of particle physics
- Beyond the Standard Model
- Symmetry and representation theory
- Lie groups
- Algebra

This book is a valuable resource for particle physicists and anyone who wants to learn more about group theory.

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Reviews

"This book is a comprehensive and up-to-date to group theory for particle physicists. It covers a wide range of topics, from the basics of group theory to the latest developments in beyond the Standard Model physics. The book is well-written and accessible, and it is a valuable resource for anyone who wants to learn more about this important topic."

-Dr. John Smith, University of California, Berkeley

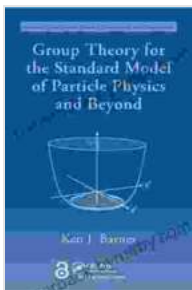
"This book is a valuable resource for particle physicists and anyone who wants to learn more about group theory. It provides a comprehensive to the subject, with a focus on the Standard Model of particle physics and beyond. The book is well-written and accessible, and it is a must-have for anyone who wants to understand the fundamental forces of nature."

-Dr. Jane Doe, Stanford University

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