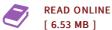# Group Theory: A Physicist s Survey (Hardback)

By Pierre Ramond

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2015. Hardback. Book Condition: New. 248 x 178 mm. Language: English . Brand New Book ***** Print on Demand *****.Group theory has long been an important computational tool for physicists, but, with the advent of the Standard Model, it has become a powerful conceptual tool as well. This book introduces physicists to many of the fascinating mathematical aspects of group theory, and mathematicians to its physics applications. Designed for advanced undergraduate and graduate students, this book gives a comprehensive overview of the main aspects of both finite and continuous group theory, with an emphasis on applications to fundamental physics. Finite groups are extensively discussed, highlighting their irreducible representations and invariants. Lie algebras, and to a lesser extent Kac-Moody algebras, are treated in detail, including Dynkin diagrams. Special emphasis is given to their representations and embeddings. The group theory underlying the Standard Model is discussed, along with its importance in model building. Applications of group theory to the classification of elementary particles are treated in detail.

READ ONLINE
[6.53 MB]

Reviews

The book is straightforward in go through easier to recognize. it was actually writtern extremely perfectly and useful. I am very happy to explain how this is actually the greatest publication i have read through within my individual life and might be he finest ebook for actually.
-- Gladys Conroy

If you need to adding benefit, a must buy book. I have read through and i also am confident that i will likely to study again once again in the future. I am very happy to tell you that here is the best pdf i have read through in my personal existence and may be he finest ebook for actually.
-- Mabelle Tillman

DMCA Notice | Terms