# PROBLEMS & SOLUTIONS IN

# GROUP THEORY FOR PHYSICISTS



Zhong-Qi Ma Xiao-Yan Gu

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# **Problems And Solutions In Group Theory For Physicists**

Michael Aivazis, Wu-ki Tung

#### **Problems And Solutions In Group Theory For Physicists:**

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physics Every problem is discussed and solved in detail A wide range of subjects is covered from potential scattering to atomic nuclear and high energy physics Special emphasis is devoted to relativistic quantum mechanics and its application to elementary processes S matrix theory the role of discrete symmetries the use of Feynman diagrams and elementary perturbative quantum field theory The course attaches great importance to recitation sessions where thorough problem solving becomes a true test of mastery of theoretical background The authors are experts in their fields A Di Giacomo taught theoretical physics for about 20 years G Paffuti and P Rossi held recitations for several years More recently Haris Panagopoulos followed suit He assisted the authors in preparing this English version translated from the Italian For physicists and especially for graduate and advanced undergraduate students in theoretical physics this book is a positive guide in the intricacies of problem solving A further feature that adds practical value to this book is that most problems correspond to realistic physical processes and their numerical results are compared to experimental values whenever possible Group Theory In Physics: An Introduction To Symmetry Principles, Group Representations, And Special Functions In Classical And Quantum Physics Wu-ki Tung, 1985-08-31 An introductory text book for graduates and advanced undergraduates on group representation theory. It emphasizes group theory is role as the mathematical framework for describing symmetry properties of classical and quantum mechanical systems Familiarity with basic group concepts and techniques is invaluable in the education of a modern day physicist This book emphasizes general features and methods which demonstrate the power of the group theoretical approach in exposing the systematics of physical systems with associated symmetry Particular attention is given to pedagogy In developing the theory clarity in presenting the main ideas and consequences is given the same priority as comprehensiveness and strict rigor To preserve the integrity of the mathematics enough technical information is included in the appendices to make the book almost self contained A set of problems and solutions has been published in a separate booklet Group Theory and Its Application to Physical Problems Morton Hamermesh, 2012-04-26 One of the best written most skillful expositions of group theory and its physical applications directed primarily to advanced undergraduate and graduate students in physics especially quantum physics With problems

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