

# GROUP THEORY IN PHYSICS

Wu-Ki Tung

# Group Theory In Physics Wu Ki Tung

**A Gutmann**



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Group Theory In Physics: Problems And Solutions Michael Aivazis, Wu-ki Tung, 1991-06-25 This solutions booklet is a supplement to the text book Group Theory in Physics by Wu Ki Tung It will be useful to lecturers and students taking the subject as detailed solutions are given

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Dubey,2019-12-12 Group theory helps readers in understanding the energy spectrum and the degeneracy of systems possessing discrete symmetry and continuous symmetry The fundamental concepts of group theory and its applications are presented with the help of solved problems and exercises The text covers two essential aspects of group theory namely discrete groups and Lie groups Important concepts including permutation groups point groups and irreducible

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**Group Representation Theory For Physicists (2nd Edition)** Jialun Ping,Fan Wang,Jin-quan Chen,2002-08-15 This book introduces systematically the eigenfunction method a new approach to the group representation theory which was developed by the authors in the 1970 s and 1980 s in accordance with the concept and method used in quantum mechanics It covers the applications of the group theory in various branches of physics and quantum chemistry especially nuclear and molecular physics Extensive tables and computational methods are presented Group Representation Theory for Physicists may serve as a handbook for researchers doing group theory calculations It is also a good reference book and textbook for undergraduate and graduate students who intend to use group theory in their future research careers

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*Quantum Field Theory and Beyond* Erhard Seiler,Klaus Sibold,2008 This book contains a collection of essays written in honor of Wolfhart Zimmermann's 80th birthday most of them based on talks presented at a symposium in his honor The book shows the unifying force of a subject Quantum Field Theory and a person Zimmermann It ranges from fundamental questions in quantum physics over applications to particle physics and noncommutative geometry to the latest developments in many body theory and dynamical systems These key ideas are elucidated by worldwide recognized experts including Faddeev Becchi Buchholz Lowenstein and Salmhofer Readers seeking examples on how a subject has evolved diversified and deepened over the course of several decades and how a single person can influence this process can find here a perfect illustration Through it all readers are treated to a high brow intellectual adventure

*Special Relativity* Ulrich E. Schröder,1990-01-01 This book provides a thorough discussion of the concepts and main consequences of special relativity Treated in detail are the Lorentz transformations their kinematical consequences the so called paradoxes relativistic

mechanics electrodynamics as an example of a relativistic field theory and the principal features of relativistic hydrodynamics The book offers a logical development of special relativity from Einstein's principle of relativity alone arrives at the essential statements of the theory by a direct approach this emphasis is different from that of most books and offers a concise introduction to tensor calculus as needed in special relativity A selection of problems and documentation of the experimental tests of special relativity are given

*Broader View Of Relativity, A: General Implications Of Lorentz And Poincare Invariance (2nd Edition)* Jong-ping Hsu, Leonardo Hsu, 2006-09-08 A Broader View of Relativity shows that there is still new life in old physics The book examines the historical context and theoretical underpinnings of Einstein's theory of special relativity and describes Broad Relativity a generalized theory of coordinate transformations between inertial reference frames that includes Einstein's special relativity as a special case It shows how the principle of relativity is compatible with multiple concepts of physical time and how these different procedures for clock synchronization can be useful for thinking about different physical problems including many body systems and the development of a Lorentz invariant thermodynamics Broad relativity also provides new answers to old questions such as the necessity of postulating the constancy of the speed of light and the viability of Reichenbach's general concept of time The book also draws on the idea of limiting four dimensional symmetry to describe coordinate transformations and the physics of particles and fields in non inertial frames particularly those with constant linear accelerations This new edition expands the discussion on the role that human conventions and unit systems have played in the historical development of relativity theories and includes new results on the implications of broad relativity for clarifying the status of constants that are truly fundamental and inherent properties of our universe

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