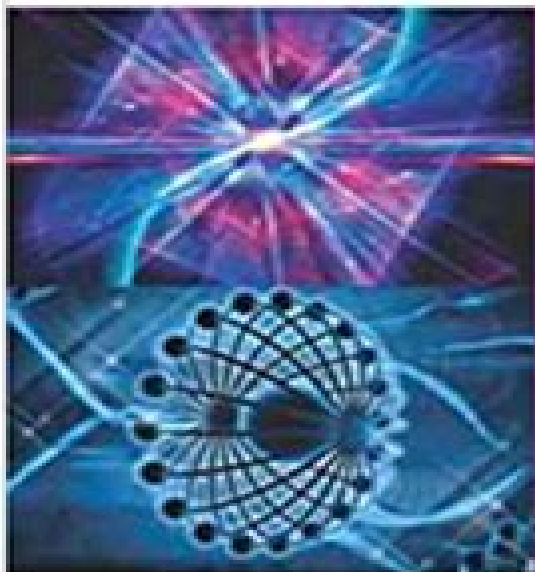




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Problems And Solutions In Group Theory For Physicists Zhong-qi Ma,Xiao-yan Gu,2004-06-04 This book is aimed at graduate students in physics who are studying group theory and its application to physics It contains a short explanation of the fundamental knowledge and method and the fundamental exercises for the method as well as some important conclusions in group theory The book can be used by graduate students and young researchers in physics especially theoretical physics It is also suitable for some graduate students in theoretical chemistry

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The Application of Group Theory in Physics Grigoriĭ IĭAĭkovlevich Liĭuĭbarskiĭ, 1960 Elements of the theory of groups Some specific groups The theory of group representations Operations with group representations Representations of certain groups Small oscillations of symmetrical systems Second order phase transitions Crystals Infinite groups Representations of the rotation groups in two and three dimensions and of the full orthogonal group Clebsch Gordon and Racah coefficients The Schrödinger equation Equations invariant under the Euclidean group of motions in space Absorption and Raman scattering of light Representations of the Lorentz group Relativistically invariant equations Nuclear reactions

An Introduction to Tensors and Group Theory for Physicists Nadir Jeevanjee, 2015-03-11 The second edition of this highly praised textbook provides an introduction to tensors group theory and their applications in classical and quantum physics Both intuitive and rigorous it aims to demystify tensors by giving the slightly more abstract but conceptually much clearer definition found in the math literature and then connects this formulation to the component formalism of physics calculations New pedagogical features such as new illustrations tables and boxed sections as well as additional invitation sections that provide accessible introductions to new material offer increased visual engagement clarity and motivation for students Part I begins with linear algebraic foundations follows with the modern component free definition of tensors and concludes with applications to physics through the use of tensor products Part II introduces group theory including abstract groups and Lie groups and their associated Lie algebras then intertwines this material with that of Part I by introducing representation theory Examples and exercises are provided in each chapter for good practice in applying the presented material and techniques Prerequisites for this text include the standard lower division mathematics and physics courses though extensive references are provided for the motivated student who has not yet had these Advanced undergraduate and beginning graduate students in physics and applied mathematics will find this textbook to be a clear concise and engaging introduction to tensors and groups

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