

GROUP THEORY IN PHYSICS

*An Introduction to Symmetry Principles,
Group Representations, and Special
Functions in Classical and
Quantum Physics*



Wu-Ki Tung

Group Theory In Physics An Introduction To Symmetry Principles Group Representations And Special Functions

Ivan Fernandez-Corbaton



Group Theory In Physics An Introduction To Symmetry Principles Group Representations And Special Functions:

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's 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 in Physics Wu-Ki Tung, 1985 An introductory text book for graduates and advanced undergraduates on group representation theory It emphasizes group theory's 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

Basics of Representation Theory Udayan Bhattacharya, 2025-02-20 Delve into the captivating world of Basics of Representation Theory a comprehensive guide designed for students researchers and enthusiasts eager to explore the intricate symmetries and structures that underpin modern mathematics Our book offers a detailed introduction to foundational concepts providing a solid understanding of group actions linear representations and character theory From there it explores the algebraic structures of irreducible representations breaking down the decomposition into irreducible components and examining the properties of characters Readers will journey through diverse topics including the representation theory of symmetric groups Lie groups and algebraic groups as well as advanced topics such as the representation theory of finite groups the Langlands program and applications in quantum mechanics and number theory With a wealth of examples illustrations and exercises Basics of Representation Theory ensures a hands on approach to learning encouraging practical exploration and problem solving The book also includes numerous references and further reading suggestions for those who wish to delve deeper into specific topics Written in a clear and accessible style this book caters to all levels from undergraduate students encountering

representation theory for the first time to experienced researchers seeking fresh insights With its comprehensive coverage and diverse applications *Basics of Representation Theory* is an invaluable resource for anyone interested in the beauty and depth of this field

Duality Symmetry Ivan Fernandez-Corbaton,2020-12-10 Symmetry is one of the most general concepts in physics Symmetry arguments are used to explain and predict observations at all length scales from elementary particles to cosmology The generality of symmetry arguments combined with their simplicity makes them a powerful tool for both fundamental and applied investigations In electrodynamics one of the symmetries is the invariance of the equations under exchange of electric and magnetic quantities The continuous version of this symmetry is most commonly known as electromagnetic duality symmetry This concept has been accepted for more than a century and throughout this time has influenced other areas of physics like high energy physics and gravitation This Special Issue is devoted to electromagnetic duality symmetry and other varieties of dualities in physics It contains four Articles one Review and one Perspective The context of the contributions ranges from string theory to applied nanophotonics which as anticipated shows that duality symmetries in general and electromagnetic duality symmetry in particular are useful in a wide variety of physics fields both theoretical and applied Moreover a number of the contributions show how the use of symmetry arguments and the quantification of symmetry breaking can successfully guide our theoretical understanding and provide us with guidelines for system design

The Non-Fundamentality of Spacetime Kian Salimkhani,2023-10-06 This book argues that our current best theories of fundamental physics are best interpreted as positing spacetime as non fundamental It is written in accessible language and largely avoids mathematical technicalities by instead focusing on the key metaphysical and foundational lessons for the fundamentality of spacetime According to orthodoxy spacetime and spatiotemporal properties are regarded as fundamental structures of our world Spacetime fundamentalism however faces challenges from speculative theories of quantum gravity roughly speaking the project of applying the lessons of quantum mechanics to gravitation and spacetime This book demonstrates that the non fundamentality of spacetime does not rely on speculative physics alone Rather one can give an interpretation of general relativity that supports some form of spacetime non fundamentalism The author makes the case for spacetime non fundamentalism in three steps First he confronts the standard geometrical interpretation of general relativity with Brown and Pooley's dynamical approach to relativity theory Second he considers an alternative derivation of the Einstein field equations namely the classical spin 2 approach and argues that it paves the way for a refined dynamical approach to general relativity Finally he argues that particle physics can serve as a continuity condition for the metaphysics of spacetime The Non Fundamentality of Spacetime will be of interest to scholars and advanced students working in philosophy of physics philosophy of science and metaphysics

Symmetry Groups and Their Applications ,1973-03-02
Symmetry Groups and Their Applications **Subject Guide to Books in Print** ,1991 *Special Relativity* Ulrich E.

Schrödinger,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

The Collected Works of Eugene Paul Wigner Eugene Paul Wigner, 2013-11-11 Not only was E P Wigner one of the most active creators of 20th century physics he was also always interested in expressing his opinion in philosophical political or sociological matters This volume of his collected works covers a wide selection of his essays about science and society about himself and his colleagues Annotated by J Mehra this volume will become an important source of reference for historians of science and it will be pleasant reading for every physicist interested in forming ideas in modern physics

Books in Print Supplement, 1994

Quantum Theory, Groups and Representations Peter Woit, 2017-11-01 This text systematically presents the basics of quantum mechanics emphasizing the role of Lie groups Lie algebras and their unitary representations The mathematical structure of the subject is brought to the fore intentionally avoiding significant overlap with material from standard physics courses in quantum mechanics and quantum field theory The level of presentation is attractive to mathematics students looking to learn about both quantum mechanics and representation theory while also appealing to physics students who would like to know more about the mathematics underlying the subject This text showcases the numerous differences between typical mathematical and physical treatments of the subject The latter portions of the book focus on central mathematical objects that occur in the Standard Model of particle physics underlining the deep and intimate connections between mathematics and the physical world While an elementary physics course of some kind would be helpful to the reader no specific background in physics is assumed making this book accessible to students with a grounding in multivariable calculus and linear algebra Many exercises are provided to develop the reader's understanding of and facility in quantum theoretical concepts and calculations

Quantenmechanik I Oliver Tennert, 2024-05-17 In einer umfassenden Darstellung entwickeln und vertiefen die vier Bände dieses Lehrbuchs das Gebilde der nichtrelativistischen Quantenmechanik weshalb sie auch bestens als Nachschlagewerk geeignet sind Der erste Band beginnt mit einer anekdotenreichen und spannenden historischen Überblicksdarstellung die die Hauptprotagonisten der Quantentheorie und wichtige Meilensteine ihres Wirkens vorstellt Im Folgenden wird dann die Formulierung im Hilbert-Raum axiomatisch entwickelt und wichtige Grundlagenthemen behandelt die eindimensionalen Probleme der harmonischen Oszillator und die WKB-Näherung als Bindeglied zur klassischen Physik Besonderheiten Auch komplizierte Zusammenhänge werden illustrativ und klar erklärt Zahlreiche mathematische Einschübe erläutern allgemeine mathematische Zusammenhänge Besondere Highlights des Buches sind die frühe Entwicklung von Propagatormethoden die

ausführliche mathematische Behandlung von kohärenten und gequetschten Zuständen des harmonischen Oszillators sowie die gründliche Untersuchung des klassischen Grenzfalles Inhalt 1 Historischer Abriss Der Weg zur Quantenmechanik 2 Der theoretische Formalismus der Quantenmechanik 3 Eindimensionale Probleme 4 Der harmonische Oszillator in der Quantenmechanik 5 Die WKB Näherung und der klassische Grenzfall Zielgruppe Das Buch richtet sich sowohl an Bachelor als auch an Masterstudierende sowie ihre Lehrenden Aufgrund seines mehrbändigen Charakters der breiten Themenvielfalt und Bezügen zu wissenschaftlichen Originalarbeiten allerdings ein Muss für jedes Bibliothekregal einer in der Physik tätigen Person Vorkenntnisse Vorausgesetzt werden Kenntnisse der Theoretischen Mechanik der Elektrodynamik und der Speziellen Relativitätstheorie sowie der Analysis der linearen Algebra und der Funktionentheorie *Quantenmechanik IV* Oliver Tennert, 2024-05-17 In einer umfassenden Darstellung entwickeln und vertiefen die vier Bände dieses Lehrbuchs das Gebäude der nichtrelativistischen Quantenmechanik weshalb sie auch bestens als Nachschlagewerk geeignet sind Der vierte Band beginnt mit einem ausführlichen Kapitel zur nichtrelativistischen Quantenelektrodynamik QED traditionell als Quantentheorie der Strahlung bezeichnet und leitet dann über in die relativistische Quantentheorie Eine sorgfältige Behandlung der Möglichkeiten und Grenzen einer relativistischen Quantenmechanik sowie eine gründliche Untersuchung von Symmetrien in der relativistischen Quantentheorie schließen das Lehrbuch ab Besonderheiten Auch komplizierte Zusammenhänge werden illustrativ und klar erklärt Zahlreiche mathematische Einschübe erläutern allgemeine mathematische Zusammenhänge Besondere Highlights des Buches sind eine ausführliche Diskussion der Lamb Verschiebung und des Casimir Effekts einschließlich der in diesem Zusammenhang offenbar werdenden Problematik der Renormierung sowie die Analyse der Einteilchen Interpretation in der relativistischen Quantenmechanik und die Betrachtung von Gruppenkontraktionen im Übergang von relativistischen zu nichtrelativistischen Symmetriegruppen und ihrer Darstellungen Inhalt 1 Quantisierung des elektromagnetischen Feldes 2 Relativistische Quantenmechanik 3 Symmetrien in der Quantenmechanik II Zielgruppe Das Buch richtet sich sowohl an Bachelor als auch an Masterstudierende sowie ihre Lehrenden Aufgrund seines mehrbändigen Charakters der breiten Themenvielfalt und Bezügen zu wissenschaftlichen Originalarbeiten allerdings ein Muss für jedes Bibliothekregal einer in der Physik tätigen Person Vorkenntnisse Vorausgesetzt werden Kenntnisse der Theoretischen Mechanik der Elektrodynamik und der Speziellen Relativitätstheorie sowie der Analysis der linearen Algebra und der Funktionentheorie

Quantenmechanik II Oliver Tennert, 2024-05-22 In einer umfassenden Darstellung entwickeln und vertiefen die vier Bände dieses Lehrbuchs das Gebäude der nichtrelativistischen Quantenmechanik weshalb sie auch bestens als Nachschlagewerk geeignet sind Der zweite Band behandelt den quantenmechanischen Drehimpuls sowie Symmetrien in der nichtrelativistischen Quantenmechanik Anschließend wird das wichtige Anwendungsgebiet der dreidimensionalen Probleme sowohl auf algebraischem Wege als auch mit analytischen Methoden untersucht Es schließen sich Kapitel zu Teilchen in elektromagnetischen Feldern und zum großen Themenkomplex identischer Teilchen an welcher nahtlos zur

Feldquantisierung weiterführt Besonderheiten Auch komplizierte Zusammenhänge werden illustrativ und klar erklärt
 Zahlreiche mathematische Einschiebungen allgemeine mathematische Zusammenhänge Besondere Highlights des Buches
 sind der algebraische Beweis zur Ganzzahligkeit des Bahndrehimpulses die ausführliche Untersuchung des Zusammenhangs
 zwischen Clifford Algebren und Spinoren sowie ein Linearisierungsansatz für die Schrödinger Gleichung Die Mathematik der
 Eichtheorien bietet eine zusammenhängende Formulierung sehr vieler topologischer Phänomene wie magnetischer Monopole
 des Aharonov Bohm Effekts oder von Landau Niveaus Inhalt 1 Theorie des Drehimpulses I 2 Symmetrien in der
 Quantenmechanik I 3 Dreidimensionale Probleme 4 Teilchen in elektromagnetischen Feldern 5 Theorie des Drehimpulses II 6
 Identische Teilchen und nichtrelativistische Quantenfeldtheorie Zielgruppe Das Buch richtet sich sowohl an Bachelor als
 auch an Masterstudierende sowie ihre Lehrenden Aufgrund seines mehrbändigen Charakters der breiten Themenvielfalt und
 Bezügen zu wissenschaftlichen Originalarbeiten allerdings ein Muss für jedes Bibliothek einer in der Physik tätigen Person
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 Relativitätstheorie sowie der Analysis der linearen Algebra und der Funktionentheorie **Quantenmechanik III** Oliver
 Tennert, 2024-05-16 In einer umfassenden Darstellung entwickeln und vertiefen die vier Bände dieses Lehrbuchs das Gebilde
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 Untersuchung der analytischen Struktur der S Matrix einschließend der Herleitung wichtiger Dispersionsrelationen Inhalt 1
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 richtet sich sowohl an Bachelor als auch an Masterstudierende sowie ihre Lehrenden Aufgrund seines mehrbändigen
 Charakters der breiten Themenvielfalt und Bezügen zu wissenschaftlichen Originalarbeiten allerdings ein Muss für jedes Bi
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 der Elektrodynamik und der Speziellen Relativitätstheorie sowie der Analysis der linearen Algebra und der Funktionentheorie
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PRINCIPLES, GROUP REPRESENTATIONS, AND SPECIAL FUNCTIONS IN CLASSICAL AND QUANTUM PHYSICS.
 Wu-Ki Tung, 1985 **Gravitation I** Oliver Tennert, 2025-04-25 Die zwei Bände dieses Lehrbuchs entwickeln und vertiefen auf
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 auch hervorragend als Nachschlagewerk Besonderheiten Auch komplizierte Zusammenhänge werden illustrativ und klar erklärt

rt Zahlreiche mathematische Einsichten beinhalten allgemeine mathematische Zusammenhänge Besondere Highlights des Buches sind die Erarbeitung der differentialgeometrischen Grundlagen die frühe Diskussion allgemeiner Raumzeit Strukturen wie geodetischer Kongruenzen der Kausalstruktur und der Petrov Klassifizierung von Raumzeiten sowie der Energie Impuls Pseudotensoren eine ausführliche Betrachtung gravito elektromagnetischer Effekte sowie die gründliche Untersuchung des raumartigen Wurmlochs der Kruskal Raumzeit Inhalt 1 Historischer Abriss Eine kurze Geschichte der Allgemeinen Relativitätstheorie 2 Die Grundlegung der Allgemeinen Relativitätstheorie 3 Allgemeine Eigenschaften von Raumzeiten 4 Linearisierte ART und post Newtonsche Näherung 5 Die Schwarzschild Lösung Zielgruppe Das Buch richtet sich an Masterstudierende sowie ihre Lehrenden Aufgrund seines mehrbändigen Charakters der breiten Themenvielfalt und Bezügen zu wissenschaftlichen Originalarbeiten allerdings ein Muss für jedes Bachelorregal einer in der Physik tätigen Person Vorkenntnisse Vorausgesetzt werden Kenntnisse der Theoretischen Mechanik der Elektrodynamik der Quantenmechanik und der Speziellen Relativitätstheorie sowie der Analysis und der linearen Algebra

Symmetry Roy McWeeny, 2012-05-23 Well organized volume develops ideas of group and representation theory in progressive fashion Emphasis on finite groups describing symmetry of regular polyhedra and of repeating patterns plus geometric illustrations **Lyapunov-Schmidt**

Methods in Nonlinear Analysis and Applications Nikolay Sidorov, Boris Loginov, A.V. Sinitsyn, M.V. Falaleev, 2013-04-17 This book concentrates on the branching solutions of nonlinear operator equations and the theory of degenerate operator differential equations especially applicable to algorithmic analysis and nonlinear PDEs in mechanics and mathematical physics The authors expound the recent result on the generalized eigen value problem the perturbation method Schmidt's pseudo inversion for regularization of linear and nonlinear problems in the branching theory and group methods in bifurcation theory The book covers regular iterative methods in a neighborhood of branch points and the theory of differential operator equations with a non invertible operator in the main expression is constructed Various recent results on theorems of existence are given including asymptotic approximate and group methods

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