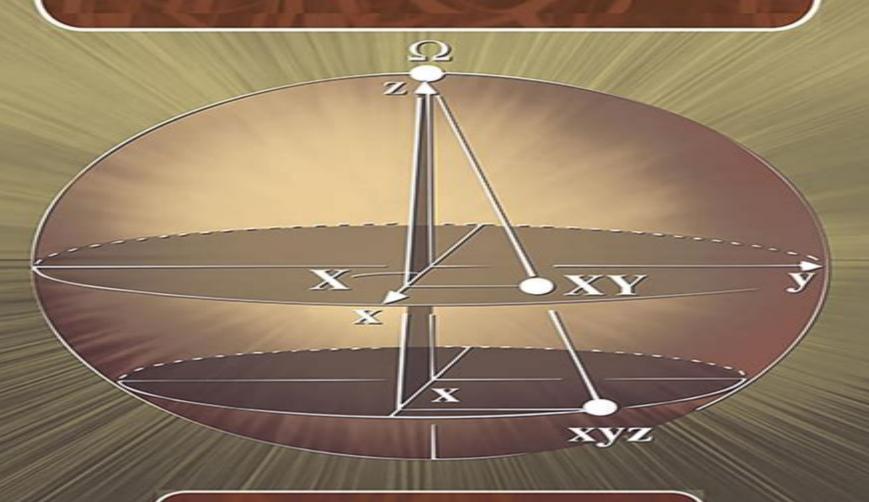
ROTATIONS, QUATERNIONS, AND DOUBLE GROUPS



SIMON L. ALTMANN

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Rotations, Quaternions, and Double Groups Simon L. Altmann, 2013-04-09 This self contained text presents a consistent description of the geometric and quaternionic treatment of rotation operators employing methods that lead to a rigorous formulation and offering complete solutions to many illustrative problems Geared toward upper level undergraduates and graduate students the book begins with chapters covering the fundamentals of symmetries matrices and groups and it presents a primer on rotations and rotation matrices Subsequent chapters explore rotations and angular momentum tensor bases the bilinear transformation projective representations and the geometry topology and algebra of rotations Some familiarity with the basics of group theory is assumed but the text assists students in developing the requisite **Analytic Hyperbolic Geometry: Mathematical Foundations And Applications** mathematical tools as necessary Abraham Albert Ungar, 2005-09-05 This is the first book on analytic hyperbolic geometry fully analogous to analytic Euclidean geometry Analytic hyperbolic geometry regulates relativistic mechanics just as analytic Euclidean geometry regulates classical mechanics. The book presents a novel gyrovector space approach to analytic hyperbolic geometry fully analogous to the well known vector space approach to Euclidean geometry A gyrovector is a hyperbolic vector Gyrovectors are equivalence classes of directed gyrosegments that add according to the gyroparallelogram law just as vectors are equivalence classes of directed segments that add according to the parallelogram law In the resulting gyrolanguage of the book one attaches the prefix gyro to a classical term to mean the analogous term in hyperbolic geometry. The prefix stems from Thomas gyration which is the mathematical abstraction of the relativistic effect known as Thomas precession Gyrolanguage turns out to be the language one needs to articulate novel analogies that the classical and the modern in this book share The scope of analytic hyperbolic geometry that the book presents is cross disciplinary involving nonassociative algebra geometry and physics As such it is naturally compatible with the special theory of relativity and particularly with the nonassociativity of Einstein velocity addition law Along with analogies with classical results that the book emphasizes there are remarkable disanalogies as well Thus for instance unlike Euclidean triangles the sides of a hyperbolic triangle are uniquely determined by its hyperbolic angles Elegant formulas for calculating the hyperbolic side lengths of a hyperbolic triangle in terms of its hyperbolic angles are presented in the book The book begins with the definition of gyrogroups which is fully analogous to the definition of groups Gyrogroups both gyrocommutative and non gyrocommutative abound in group theory Surprisingly the seemingly structureless Einstein velocity addition of special relativity turns out to be a gyrocommutative gyrogroup operation Introducing scalar multiplication some gyrocommutative gyrogroups of gyrovectors become gyrovector spaces The latter in turn form the setting for analytic hyperbolic geometry just as vector spaces form the setting for analytic Euclidean geometry By hybrid techniques of differential geometry and gyrovector spaces it is shown that Einstein M bius gyrovector spaces form the setting for Beltrami Klein Poincar ball models of hyperbolic geometry Finally

novel applications of M bius gyrovector spaces in quantum computation and of Einstein gyrovector spaces in special relativity Analytic Hyperbolic Geometry And Albert Einstein's Special Theory Of Relativity (Second **Edition)** Abraham Albert Ungar, 2022-02-22 This book presents a powerful way to study Einstein's special theory of relativity and its underlying hyperbolic geometry in which analogies with classical results form the right tool The premise of analogy as a study strategy is to make the unfamiliar familiar Accordingly this book introduces the notion of vectors into analytic hyperbolic geometry where they are called gyrovectors Gyrovectors turn out to be equivalence classes that add according to the gyroparallelogram law just as vectors are equivalence classes that add according to the parallelogram law In the gyrolanguage of this book accordingly one prefixes a gyro to a classical term to mean the analogous term in hyperbolic geometry As an example the relativistic gyrotrigonometry of Einstein's special relativity is developed and employed to the study of the stellar aberration phenomenon in astronomy Furthermore the book presents for the first time the relativistic center of mass of an isolated system of noninteracting particles that coincided at some initial time t 0 It turns out that the invariant mass of the relativistic center of mass of an expanding system like galaxies exceeds the sum of the masses of its constituent particles This excess of mass suggests a viable mechanism for the formation of dark matter in the universe which has not been detected but is needed to gravitationally glue each galaxy in the universe The discovery of the relativistic center of mass in this book thus demonstrates once again the usefulness of the study of Einstein's special theory of relativity in terms of its underlying hyperbolic geometry Linear Algebra Meighan I. Dillon, 2022-10-14 This textbook is directed towards students who are familiar with matrices and their use in solving systems of linear equations. The emphasis is on the algebra supporting the ideas that make linear algebra so important both in theoretical and practical applications The narrative is written to bring along students who may be new to the level of abstraction essential to a working understanding of linear algebra The determinant is used throughout placed in some historical perspective and defined several different ways including in the context of exterior algebras The text details proof of the existence of a basis for an arbitrary vector space and addresses vector spaces over arbitrary fields It develops LU factorization Jordan canonical form and real and complex inner product spaces It includes examples of inner product spaces of continuous complex functions on a real interval as well as the background material that students may need in order to follow those discussions Special classes of matrices make an entrance early in the text and subsequently appear throughout The last chapter of the book introduces the classical groups

<u>Functions of Matrices</u> Nicholas J. Higham, 2008-01-01 A thorough and elegant treatment of the theory of matrix functions and numerical methods for computing them including an overview of applications new and unpublished research results and improved algorithms Key features include a detailed treatment of the matrix sign function and matrix roots a development of the theory of conditioning and properties of the Fre chet derivative Schur decomposition block Parlett recurrence a thorough analysis of the accuracy stability and computational cost of numerical methods general results on convergence and stability

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mystique prevails as we have no clue of what exactly is spinning Nevertheless the theoretical framework underlying the spin determines why we exist and explains the mysteries of the 3000 year old phenomenon of magnetism This book showcases MRI one of the most important medical advances of the 20th century with a tantalizing history of the application of nuclear spin to humanity It narrates fascinating spin tales of the precision measurements of electron and muon spin magnetic moments displaying a mindboggling confrontation between theory and experiment that remains our ambassador to quantum Probabilistic Models of Cosmic Backgrounds Anatoliy Malyarenko, 2024-06-30 Combining research methods from physics various areas of mathematics and physics Probabilistic Models of Cosmic Backgrounds describes the isotropic random sections of certain fiber bundles and their applications to creating rigorous mathematical models of both discovered and hypothetical cosmic backgrounds Previously scattered and hard to find mathematical and physical theories have been assembled from numerous textbooks monographs and research papers and explained from different or even unexpected points of view This consists of both classical and newly discovered results necessary for understanding a sophisticated problem of modelling cosmic backgrounds The book contains a comprehensive description of mathematical and physical aspects of cosmic backgrounds with a clear focus on examples and explicit calculations Its reader will bridge the gap of misunderstanding between the specialists in various theoretical and applied areas who speak different scientific languages The audience of the book consists of scholars students and professional researchers A scholar will find basic material for starting their own research A student will use the book as supplementary material for various courses and modules A professional mathematician will find a description of several physical phenomena at the rigorous mathematical level A professional physicist will discover mathematical foundations for well known physical theories A Comet of the Enlightenment Johan C.-E. Stén, 2014-05-22 The Finnish mathematician and astronomer Anders Johan Lexell 1740 1784 was a long time close collaborator as well as the academic successor of Leonhard Euler at the Imperial Academy of Sciences in Saint Petersburg Lexell was initially invited by Euler from his native town of Abo Turku in Finland to Saint Petersburg to assist in the mathematical processing of the astronomical data of the forthcoming transit of Venus of 1769 A few years later he became an ordinary member of the Academy This is the first ever full length biography devoted to Lexell and his prolific scientific output His rich correspondence especially from his grand tour to Germany France and England reveals him as a lucid observer of the intellectual landscape of enlightened Europe In the skies a comet a minor planet and a crater on the Moon named after Lexell also perpetuate his memory Hegel's Jena Moment O. Bradley Bassler, 2025-09-26 Hegel's Jena Moment remains the undiscovered continent of his thought This book explores this continent by examining the Logic and Metaphysics from Hegel s 1804 5 Jena System Project and it is the first book length treatment of these works in English Previously H S Harris has written fruitfully on the Jena Moment but his work is couched in terms of the Jena Moment as preparation for Hegel's Phenomenology of Spirit Instead this book reads the Jena Moment on its own terms Hegel's Jena

System Project is a masterpiece of philosophical thinking and in some ways more radical than anything he would go on to publish In a contemporary philosophical climate largely dominated by receptions of the Phenomenology of Spirit it points to new inroads and programs for reading Hegel This book should appeal to anyone interested in using Hegel as a springboard for philosophical thinking in the twenty first century Who Gave You the Epsilon? Marlow Anderson, Victor Katz, Robin Wilson.2009-03-31 Follows on from Sherlock Holmes in Babylon to take the history of mathematics through the nineteenth **Is Nature Supernatural?** Simon L. Altmann, 2011-04-06 Whether you agree with much of what it says or not this is a must read book For it covers a huge range of topics from quantum theory to philosophy of mind in a delightfully challenging way that forces you to think through your own views on these topics Overall Altmann's book is highly recommended for a read Philosophy in ReviewThis unique book is magnificently written with wit and penetrating insights bridges the gap between science and philosophy for the first time great concepts are cleverly presented in remarkable clear prose marvelous footnotes great index comprehensive bibliography ChoiceMathematical truths are often so compelling that some mathematicians scientists and philosophers posit a purely nonmaterial realm of eternal truths accessible to the mind alone Mathematical physicist Simon Altmann carefully criticizes this revival of dualistic philosophy a la Plato in this highly stimulating book Has mathematics and physics discovered a new supernatural world or is this mental cosmos simply an outgrowth of natural evolutionary processes This is the crucial philosophical issue that Altmann elucidates Altmann provides a thorough philosophical basis to understand the meaning of natural law the scientific method and causality in science He reviews the classical approach to time space and the laws of mechanics and discusses the implications of relativity theory Key modern concepts like randomness probability and time s arrow are explained and the nature of mathematics and G del s theorems is discussed in depth A mystery free treatment of quantum mechanics Schr dinger's cat and the famous Bell inequalities follows He also assesses the reactions of various philosophical schools to these developments idealism physicalism cultural relativism and social constructivism The book concludes with a fascinating dialogue on science and belief Educated lay readers will welcome Altmann s engaging and lucid exposition Simon Altmann Oxford UK is Emeritus Fellow at Brasenose College University of Oxford Mathematics and Social Utopias in France Simon Altmann, Eduardo L. Ortiz, 2013-03-30 Social reformer banker and mathematician Olinde Rodrigues is a fascinating figure of nineteenth century Paris Information about him is obscure scattered in publications on history mathematics and the social sciences and often inaccurate Rodrigues left no papers or archives Here for the first time is an authoritative account of his family history education and important mathematical works Written by a team of prominent mathematicians and historians the book comprises the interests and associations that make Rodrigues such a remarkable character in the history of mathematics This is a superb panorama of nineteenth century France portrayed through the life and work of Olinde Rodrigues The beginning chapters attempt to recreate the scientific and social background of nineteenth century Paris and Rodrigues s place in it The

following chapters discuss his contributions to a variety of mathematical fields e g orthogonal polynomials combinatorics and rotations The final chapters discuss contemporary reactions to his mathematical work Sufficient background is given to make it accessible to readers familiar with basic college mathematics. The book is suitable for specialists in the history of mathematics and or science graduate students and mathematicians Co published with the London Mathematical Society beginning with Volume 4 Mathematics Magazine ,1989 Point-group Theory Tables Simon L. Altmann, Peter Herzig, 1994 This book a unique reference for all those who use point groups presents tables much improved over those previously available They are more extensive providing 75 point groups and their double groups And they are more precise and complete all symmetry operations are uniquely parameterized and their multiplication tables including the double groups are given Full matrix representations are provided and particular attention has been paid to keeping phase factors constant on subduction along group chains A theoretical introduction contains an extensive list of the subject s important results a very clear statement of all conventions required and detailed instructions with examples showing how to use the tables Solved problems appear throughout the book Besides being an indispensable reference tool for anyone who uses point groups this book is an ideal resource for students taking group theory chemistry and physics courses Lockver, 1869 <u>Icons and Symmetries</u> Simon L. Altmann,1992 This book grew out of a short series of lectures on symmetry aimed at a general scientific audience given by the author at the Catholic University at Leuven in October 1989 Using only elementary mathematics he discusses the subtle relations between physical objects models and icons and explains some of the so called symmetry paradoxes Each of the three chapters uses a case study to show through both historical and physical ideas how some of the major concepts of symmetry became established The concept and importance of an icon are strongly illustrated in the first two chapters in Chapter 1 the origins and applications of symmetry are illustrated with the famous Orsted paradox of the interaction between the magnetic needle and the electric current Chapter 2 deals with rotations and the way in which Hamilton tried to describe them by means of quaternions this gives an insight into the symmetry properties of vectors and shows the way in which tensors and spinors gradually moved into the picture Finally Chapter 3 illustrates the use of symmetry in the classification of energy levels in atoms and solids and discusses broken symmetry

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