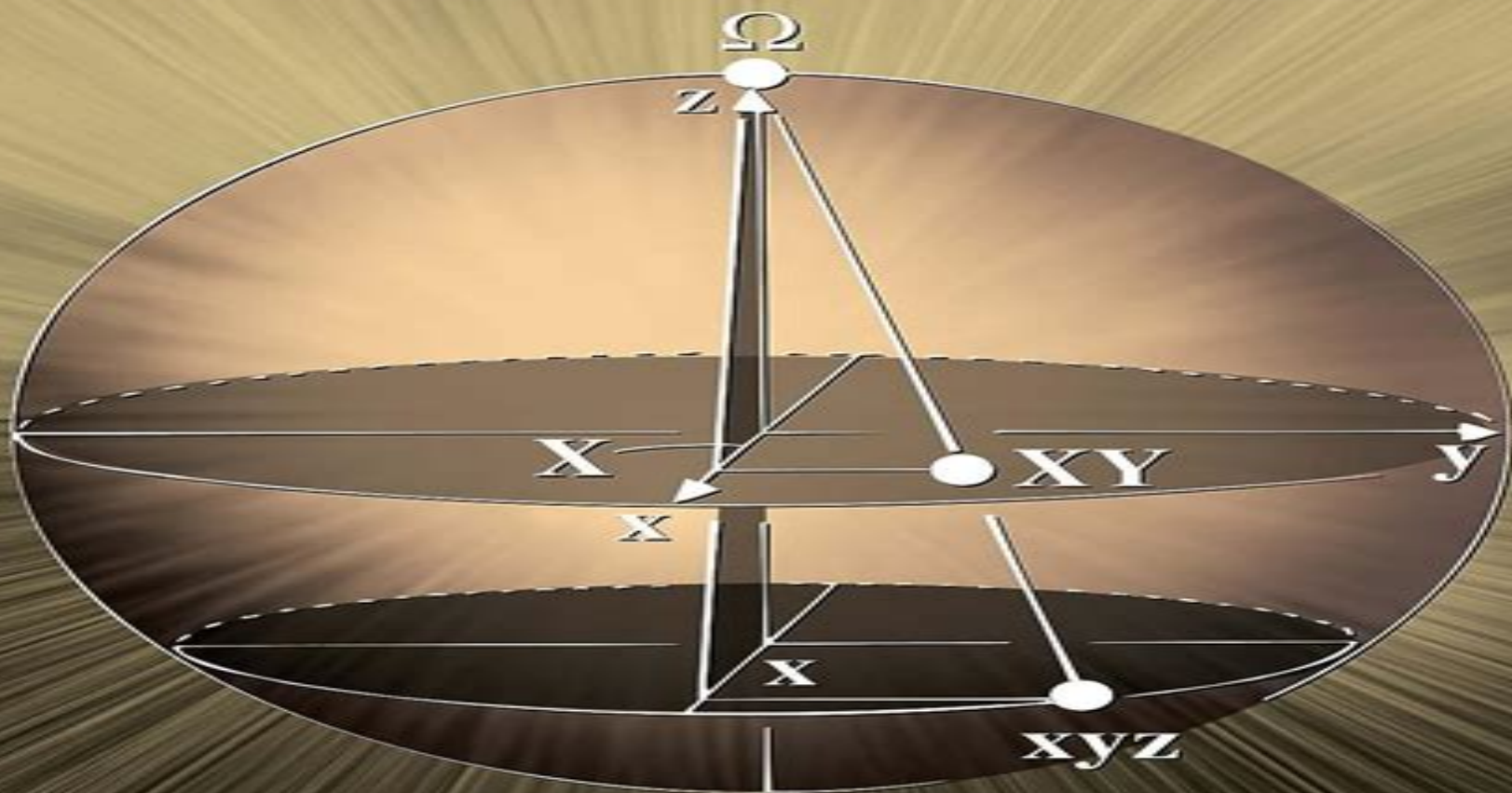


ROTATIONS, QUATERNIONS, AND DOUBLE GROUPS



SIMON L. ALTMANN

Rotations Quaternions And Double Groups Simon L Altmann

J. B. Kuipers



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Rotations, Quaternions, and Double Groups Simon L. Altmann, 2005-01-01 This text presents a consistent description of the geometric and quaternionic treatment of rotation operators Covers the fundamentals of symmetries matrices and groups and presents a primer on rotations and rotation matrices Also explores rotations and angular momentum tensor bases the bilinear transformation projective representations more Includes problems with solutions **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 mathematical tools as necessary **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 **Analytic Hyperbolic Geometry: Mathematical Foundations And**

Applications 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 are presented

Quaternions and Rotation Sequences J. B. Kuipers, 2020-03-31

Ever since the Irish mathematician William Rowan Hamilton introduced quaternions in the nineteenth century a feat he celebrated by carving the founding equations into a stone bridge mathematicians and engineers have been fascinated by these mathematical objects Today they are used in applications as various as describing the geometry of spacetime guiding the Space Shuttle and developing computer applications in virtual reality In this book J B Kuipers introduces quaternions for scientists and engineers who have not encountered them before and shows how they can be used in a variety of practical situations The book is primarily an exposition of the quaternion a 4 tuple and its primary application in a rotation operator But Kuipers also presents the more conventional and familiar 3×3 9 element matrix rotation operator These parallel presentations allow the reader to judge which approaches are preferable for specific applications The volume is divided into three main parts The opening chapters present introductory material and establish the book's terminology and notation The next part presents the mathematical properties of quaternions including quaternion algebra and geometry It includes more

advanced special topics in spherical trigonometry along with an introduction to quaternion calculus and perturbation theory required in many situations involving dynamics and kinematics In the final section Kuipers discusses state of the art applications He presents a six degree of freedom electromagnetic position and orientation transducer and concludes by discussing the computer graphics necessary for the development of applications in virtual reality

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

Functions of Matrices 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 Fréchet 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 of matrix iterations and a chapter devoted to the f A b problem Ideal for advanced courses and for self study its broad content references and appendix also make this book a convenient general reference Contains an extensive collection of problems with solutions and MATLAB implementations of key algorithms

Modelling And Control Of Mechanisms And Robots Antonio Tornambe, Claudio Melchiorri, 1996-05-30 This volume provides doctorate students and professionals with basic and advanced material on modelling and control of complex mechanical systems with particular emphasis on robotic manipulators

Geometry: Plane and Fancy David A. Singer, 2012-12-06 GEOMETRY Plane and Fancy offers students a fascinating tour through parts of geometry they are unlikely to see in the rest of their studies while at the same time anchoring their excursions to the well known parallel postulate of Euclid The author shows how alternatives to Euclid's fifth postulate lead to interesting and different patterns and symmetries In the process of examining geometric objects the author incorporates the algebra of complex and hypercomplex numbers some graph theory and some topology Nevertheless the book has only mild prerequisites Readers are assumed to have had a course in Euclidean geometry including some analytic geometry and some algebra at the high school level While

many concepts introduced are advanced the mathematical techniques are not Singer's lively exposition and off beat approach will greatly appeal both to students and mathematicians Interesting problems are nicely scattered throughout the text The contents of the book can be covered in a one semester course perhaps as a sequel to a Euclidean geometry course *3D*

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