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The Special Theory of Relativity

A Mathematical Exposition

University of
Tübingen



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Anadijiban Das



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The Special Theory of Relativity Anadijiban Das, 2012-12-06 Based on courses taught at the University of Dublin Carnegie Mellon University and mostly at Simon Fraser University this book presents the special theory of relativity from a mathematical point of view It begins with the axioms of the Minkowski vector space and the flat spacetime manifold Then it discusses the kinematics of special relativity in terms of Lorentz transformations and treats the group structure of Lorentz transformations Extending the discussion to spinors the author shows how a unimodular mapping of spinor vector space can induce a proper orthochronous Lorentz mapping on the Minkowski vector space The second part begins with a discussion of relativistic particle mechanics from both the Lagrangian and Hamiltonian points of view The book then turns to the relativistic classical field theory including a proof of Noether's theorem and discussions of the Klein Gordon electromagnetic Dirac and non abelian gauge fields The final chapter deals with recent work on classical fields in an eight dimensional covariant phase space

The General Theory of Relativity Anadijiban Das, Andrew DeBenedictis, 2012-06-26 The General Theory of Relativity A Mathematical Exposition will serve readers as a modern mathematical introduction to the general theory of relativity Throughout the book examples worked out problems and exercises with hints and solutions are furnished Topics in this book include but are not limited to tensor analysis the special theory of relativity the general theory of relativity and Einstein's field equations spherically symmetric solutions and experimental confirmations static and stationary space time domains black holes cosmological models algebraic classifications and the Newman Penrose equations the coupled Einstein Maxwell Klein Gordon equations appendices covering mathematical supplements and special topics Mathematical rigor yet very clear presentation of the topics make this book a unique text for both university students and research scholars Anadijiban Das has taught courses on Relativity Theory at The University College of Dublin Ireland Jadavpur University India Carnegie Mellon University USA and Simon Fraser University Canada His major areas of research include among diverse topics the mathematical aspects of general relativity theory Andrew DeBenedictis has taught courses in Theoretical Physics at Simon Fraser University Canada and is also a member of The Pacific Institute for the Mathematical Sciences His research interests include quantum gravity classical gravity and semi classical gravity

A Geometric Algebra Invitation to Space-Time Physics, Robotics and Molecular Geometry Carlile Lavor, Sebastià Xambó-Descamps, Isiah Zaplana, 2018-07-12 This book offers a gentle introduction to key elements of Geometric Algebra along with their applications in Physics Robotics and Molecular Geometry Major applications covered are the physics of space time including Maxwell electromagnetism and the Dirac equation robotics including formulations for the forward and inverse kinematics and an overview of the singularity problem for serial robots and molecular geometry with 3D protein structure calculations using NMR data The book is primarily intended for graduate students and advanced undergraduates in related fields but can also benefit professionals in search of a pedagogical presentation of these subjects

Introductory Lectures on Fluctuations of

Lévy Processes with Applications Andreas E. Kyprianou, 2006-12-18 This textbook forms the basis of a graduate course on the theory and applications of Lévy processes from the perspective of their path fluctuations The book aims to be mathematically rigorous while still providing an intuitive feel for underlying principles The results and applications often focus on the case of Lévy processes with jumps in only one direction for which recent theoretical advances have yielded a higher degree of mathematical transparency and explicitness

Complex Analysis Eberhard Freitag, Rolf Busam, 2006-01-17 All needed notions are developed within the book with the exception of fundamentals which are presented in introductory lectures no other knowledge is assumed Provides a more in depth introduction to the subject than other existing books in this area Over 400 exercises including hints for solutions are included

An Introduction to Infinite-Dimensional Analysis Giuseppe Da Prato, 2006-08-25 Based on well known lectures given at Scuola Normale Superiore in Pisa this book introduces analysis in a separable Hilbert space of infinite dimension It starts from the definition of Gaussian measures in Hilbert spaces concepts such as the Cameron Martin formula Brownian motion and Wiener integral are introduced in a simple way These concepts are then used to illustrate basic stochastic dynamical systems and Markov semi groups paying attention to their long time behavior

Statistics of Financial Markets Jürgen Franke, Wolfgang Karl Härdle, Christian Matthias Hafner, 2008-01-04 Readers will find that refreshingly this text presents in a vivid yet concise style the necessary statistical and mathematical background for financial engineers The focus is both on fundamentals of mathematical finance and financial time series analysis and on applications to given problems of financial markets making the book the ideal basis for lectures seminars and crash courses on the topic For the second edition the book has been updated and extensively revised Several new topics have been included such as a chapter on credit risk management

Calabi-Yau Manifolds and Related Geometries Mark Gross, Daniel Huybrechts, Dominic Joyce, 2012-12-06 This is an introduction to a very active field of research on the boundary between mathematics and physics It is aimed at graduate students and researchers in geometry and string theory Proofs or sketches are given for many important results From the reviews An excellent introduction to current research in the geometry of Calabi Yau manifolds hyper Kähler manifolds exceptional holonomy and mirror symmetry This is an excellent and useful book

MATHEMATICAL REVIEWS

Tools for Computational Finance Rüdiger U. Seydel, 2013-06-29 This edition contains more material The largest addition is a new section on jump processes Section 1.9 The derivation of a related partial integro differential equation is included in Appendix A3 More material is devoted to Monte Carlo simulation An algorithm for the standard workhorse of inverting the normal distribution is added to Appendix A7 New figures and more exercises are intended to improve the clarity at some places Several further references give hints on more advanced material and on important developments Many small changes are hoped to improve the readability of this book Further I have made an effort to correct misprints and errors that I knew about A new domain is being prepared to serve the needs of the computational finance community and to provide complementary material to this book The address of the domain is www.compfin.de The

domain is under construction it replaces the website address [www mi uni koeln de numerik compfin](http://www.mi.uni-koeln.de/numerik/compfin) Suggestions and remarks both on this book and on the domain are most welcome

Postmodern Analysis Jürgen Jost, 2013-03-09 What is the title of this book intended to signify what connotations is the adjective Postmodern meant to carry A potential reader will surely pose this question To answer it I should describe what distinguishes the approach to analysis presented here from what has been called Modern Analysis by its protagonists Modern Analysis as represented in the works of the Bourbaki group or in the textbooks by Jean Dieudonné is characterized by its systematic and axiomatic treatment and by its drive towards a high level of abstraction Given the tendency of many prior treatises on analysis to degenerate into a collection of rather unconnected tricks to solve special problems this definitely represented a healthy achievement In any case for the development of a consistent and powerful mathematical theory it seems to be necessary to concentrate solely on the internal problems and structures and to neglect the relations to other fields of scientific even of mathematical study for a certain while Almost complete isolation may be required to reach the level of intellectual elegance and perfection that only a good mathematical theory can acquire However once this level has been reached it might be useful to open one's eyes again to the inspiration coming from concrete external problems

Numerical Solution of SDE Through Computer Experiments Peter Eris Kloeden, Eckhard Platen, Henri Schurz, 2002-12-12 This book provides an easily accessible computationally oriented introduction into the numerical solution of stochastic differential equations using computer experiments It develops in the reader an ability to apply numerical methods solving stochastic differential equations It also creates an intuitive understanding of the necessary theoretical background Software containing programs for over 100 problems is available online

Numerical Optimization Joseph-Frédéric Bonnans, Jean Charles Gilbert, Claude Lemaréchal, Claudia A. Sagastizábal, 2006-10-06 This book starts with illustrations of the ubiquitous character of optimization and describes numerical algorithms in a tutorial way It covers fundamental algorithms as well as more specialized and advanced topics for unconstrained and constrained problems This new edition of Numerical Optimization contains computational exercises in the form of case studies which help understanding optimization methods beyond their theoretical description when coming to actual implementation

Motivic Homotopy Theory Bjørn Ian Dundas, 2007 This book is based on lectures given at a summer school on motivic homotopy theory at the Sophus Lie Centre in Nordfjordeid Norway in August 2002 Vladimir Voevodsky is one of the founders of the theory and received the Fields medal for his work

Riemannian Geometry and Geometric Analysis Jürgen Jost, 2013-04-17 The present textbook is a somewhat expanded version of the material of a three semester course I gave in Bochum It attempts a synthesis of geometric and analytic methods in the study of Riemannian manifolds In the first chapter we introduce the basic geometric concepts like differentiable manifolds tangent spaces vector bundles vector fields and one parameter groups of diffeomorphisms Lie algebras and groups and in particular Riemannian metrics We also derive some elementary results about geodesics The second chapter introduces de Rham cohomology groups

and the essential tools from elliptic PDE for treating these groups In later chapters we shall encounter nonlinear versions of the methods presented here The third chapter treats the general theory of connections and curvature In the fourth chapter we introduce Jacobi fields prove the Rauch comparison theorems for Jacobi fields and apply these results to geodesics These first four chapters treat the more elementary and basic aspects of the subject Their results will be used in the remaining more advanced chapters that are essentially independent of each other In the fifth chapter we develop Morse theory and apply it to the study of geodesics The sixth chapter treats symmetric spaces as important examples of Riemannian manifolds in detail

Algebraic Combinatorics Peter Orlik, Volkmar Welker, 2007-03-02 Each year since 1996 the universities of Bergen Oslo and Trondheim have organized summer schools in Nordfjordeid in various topics in algebra and related fields Nordfjordeid is the birthplace of Sophus Lie and is a village on the western coast of Norway situated among fjords and mountains with spectacular scenery wherever you go As such it is a welcome place for both Norwegian and international participants and lecturers The theme for the summer school in 2003 was Algebraic Combinatorics The organizing committee consisted of Gunnar Fløystad and Stein Arild Strømme Bergen Geir Ellingsrud and Kristian Ranestad Oslo and Alexej Rudakov and Sverre Smalø Troheim The summer school was partly financed by NorFa Nordisk Forskerdanningsakademi With combinatorics reaching into and playing an important part of ever more areas in mathematics in particular algebra algebraic combinatorics was a timely theme The first lecture series Hyperplane arrangements was given by Peter Orlik He came as a refugee to Norway eighteen years old after the insurrection in Hungary in 1956 Despite now having lived more than four decades in the United States he impressed us by speaking fluent Norwegian without a trace of accent The second lecture series Discrete Morse theory and free resolutions was given by Volkmar Welker These two topics originate back in the second half of the nineteenth century with simple problems on arrangements of lines in the plane and Hilbert's syzygy theorem

Lectures on Partial Differential Equations Vladimir I. Arnold, 2003-10-29 Choice Outstanding Title January 2006 This richly illustrated text covers the Cauchy and Neumann problems for the classical linear equations of mathematical physics A large number of problems are sprinkled throughout the book and a full set of problems from examinations given in Moscow are included at the end Some of these problems are quite challenging What makes the book unique is Arnold's particular talent at holding a topic up for examination from a new and fresh perspective He likes to blow away the fog of generality that obscures so much mathematical writing and reveal the essentially simple intuitive ideas underlying the subject No other mathematical writer does this quite so well as Arnold

Abstract Algebra and Famous Impossibilities Arthur Jones, Sidney A. Morris, Kenneth R. Pearson, 2012-12-06 The famous problems of squaring the circle doubling the cube and trisecting an angle captured the imagination of both professional and amateur mathematicians for over two thousand years Despite the enormous effort and ingenious attempts by these men and women the problems would not yield to purely geometrical methods It was only the development of abstract algebra in the nineteenth century which enabled mathematicians to arrive at the surprising

conclusion that these constructions are not possible In this book we develop enough abstract algebra to prove that these constructions are impossible Our approach introduces all the relevant concepts about fields in a way which is more concrete than usual and which avoids the use of quotient structures and even of the Euclidean algorithm for finding the greatest common divisor of two polynomials Having the geometrical questions as a specific goal provides motivation for the introduction of the algebraic concepts and we have found that students respond very favourably We have used this text to teach second year students at La Trobe University over a period of many years each time refining the material in the light of student performance

Mathematical Modeling for the Life Sciences Jacques Istas, 2005-06-09 Provides a wide range of mathematical models currently used in the life sciences Each model is thoroughly explained and illustrated by example Includes three appendices to allow for independent reading

From Vectors to Tensors Juan R. Ruiz-Tolosa, Enrique Castillo, 2004-11-29 This textbook deals with tensors that are treated as vectors Coverage details such new tensor concepts as the rotation of tensors the transposer tensor the eigentensors and the permutation tensor structure The book covers an existing gap between the classic theory of tensors and the possibility of solving tensor problems with a computer A complementary computer package written in Mathematica is available through the Internet

Theory and Numerics of Differential Equations James Blowey, John P. Coleman, Alan W. Craig, 2001-08-28 A compilation of detailed lecture notes on six topics at the forefront of current research in numerical analysis and applied mathematics Each set of notes presents a self contained guide to a current research area and has an extensive bibliography In addition most of the notes contain detailed proofs of the key results The notes start from a level suitable for first year graduate students in applied mathematics mathematical analysis or numerical analysis and proceed to current research topics The reader should therefore be able to quickly gain an insight into the important results and techniques in each area without recourse to the large research literature Current unsolved problems are also described and directions for future research is given

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