Tensor Geometry

The Geometric Viewpoint and its Uses

CTJ Dodson + T Poston
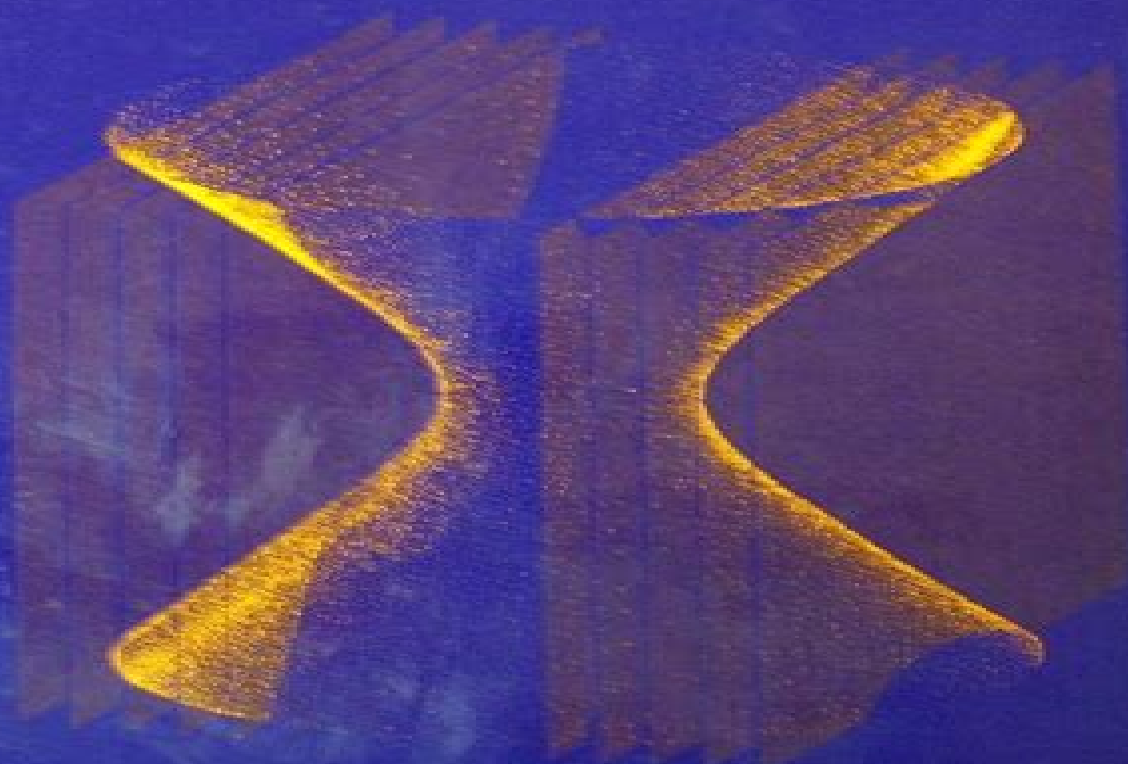
Tensor Geometry The Geometric Viewpoint Its Uses

Anastasios Mallios

Tensor Geometry The Geometric Viewpoint Its Uses:

Tensor Geometry C. T. J. Dodson,Timothy Poston,2013-04-17 This treatment of differential geometry and the mathematics required for general relativity makes the subject of this book accessible for the first time to anyone familiar with elementary calculus in one variable and with a knowledge of some vector algebra   **Tensor Geometry** C. T. J. Dodson,1979
    Tensor Calculus for Engineers and Physicists Emil de Souza Sánchez Filho,2016-05-20 This textbook provides a rigorous approach to tensor manifolds in several aspects relevant for Engineers and Physicists working in industry or academia With a thorough comprehensive and unified presentation this book offers insights into several topics of tensor analysis which covers all aspects of n dimensional spaces The main purpose of this book is to give a self contained yet simple correct and comprehensive mathematical explanation of tensor calculus for undergraduate and graduate students and for professionals In addition to many worked problems this book features a selection of examples solved step by step Although no emphasis is placed on special and particular problems of Engineering or Physics the text covers the fundamentals of these fields of science The book makes a brief introduction into the basic concept of the tensorial formalism so as to allow the reader to make a quick and easy review of the essential topics that enable having the grounds for the subsequent themes without needing to resort to other bibliographical sources on tensors Chapter 1 deals with Fundamental Concepts about tensors and chapter 2 is devoted to the study of covariant absolute and contravariant derivatives The chapters 3 and 4 are dedicated to the Integral Theorems and Differential Operators respectively Chapter 5 deals with Riemann Spaces and finally the chapter 6 presents a concise study of the Parallelism of Vectors It also shows how to solve various problems of several particular manifolds   *Applications of Differential Geometry to Econometrics* Paul Marriott,Mark Salmon,2000-08-31 Although geometry has always aided intuition in econometrics more recently differential geometry has become a standard tool in the analysis of statistical models offering a deeper appreciation of existing methodologies and highlighting the essential issues which can be hidden in an algebraic development of a problem Originally published in 2000 this volume was an early example of the application of these techniques to econometrics An introductory chapter provides a brief tutorial for those unfamiliar with the tools of Differential Geometry The topics covered in the following chapters demonstrate the power of the geometric method to provide practical solutions and insight into problems of econometric inference   Mathematical Introduction To General Relativity, A (Second Edition) Amol Sasane,2024-12-20 The book aims to give a mathematical presentation of the theory of general relativity that is spacetime geometry based gravitation theory to advanced undergraduate mathematics students Mathematicians will find spacetime physics presented in the definition theorem proof format familiar to them The given precise mathematical definitions of physical notions help avoiding pitfalls especially in the context of spacetime physics describing phenomena that are counter intuitive to everyday experiences In the first part the differential geometry of smooth manifolds which is needed to present the spacetime based gravitation theory is developed

from scratch Here many of the illustrating examples are the Lorentzian manifolds which later serve as spacetime models This has the twofold purpose of making the physics forthcoming in the second part relatable and the mathematics learnt in the first part less dry The book uses the modern coordinate free language of semi Riemannian geometry Nevertheless to familiarise the reader with the useful tool of coordinates for computations and to bridge the gap with the physics literature the link to coordinates is made through exercises and via frequent remarks on how the two languages are related In the second part the focus is on physics covering essential material of the 20th century spacetime based view of gravity energy momentum tensor field of matter field equation spacetime examples Newtonian approximation geodesics tests of the theory black holes and cosmological models of the universe Prior knowledge of differential geometry or physics is not assumed The book is intended for self study and the solutions to all the 283 exercises are included The second edition corrects errors from the first edition and includes 60 new exercises 10 new remarks 29 new figures some of which cover auxiliary topics that were omitted in the first edition **Theory and Practice of Geometric Modeling** Wolfgang Straßer,Hans-Peter Seidel,2012-12-06 This book is a result of the lectures and discussions during the conference Theory and Practice of Geometric Modeling The event has been organized by the Wilhelm Schickard Institut fiir Informatik Universitat Tiibingen and took place at the Heinrich Fabri Institut in Blaubeuren from October 3 to 7 1988 The conference brought together leading experts from academic and industrial research institutions CAD system developers and experien ced users to exchange their ideas and to discuss new concepts and future directions in geometric modeling The main intention has been to bridge the gap between theoretical results performance of existing CAD systems and the real problems of users The contents is structured in five parts A Algorithmic Aspects B Surface Intersection Blending Ray Tracing C Geometric Tools D Different Representation Schemes in Solid Modeling E Product Modeling in High Level Specifications The material presented in this book reflects the current state of the art in geometric modeling and should therefore be of interest not only to university and industry researchers but also to system developers and practitioners who wish to keep up to date on recent advances and new concepts in this rapidly expanding field The editors express their sincere appreciation to the contributing authors and to the members of the program committee W Boehm J Hoschek A Massabo H Nowacki M Pratt J Rossignac T Sederberg and W Tiller for their close cooperation and their time and effort that made the conference and this book a success

Fundamentals of Aerospace Navigation and Guidance Pierre T. Kabamba,Anouck R. Girard,2014-08-29 This text covers fundamentals used in the navigation and guidance of modern aerospace vehicles in both atmospheric and space flight It can be used as a textbook supporting a graduate level course on aerospace navigation and guidance a guide for self study or a resource for practicing engineers and researchers It begins with an introduction that discusses why navigation and guidance ought to be considered together and delineates the class of systems of interest in navigation and guidance The book then presents the necessary fundamentals in deterministic and stochastic systems theory and applies them to navigation

Next the book treats optimization and optimal control for application in optimal guidance In the final chapter the book introduces problems where two competing controls exercise authority over a system leading to differential games Fundamentals of Aerospace Navigation and Guidance features examples illustrating concepts and homework problems at the end of all chapters **Manifolds and Differential Geometry** Jeffrey M. Lee,2022-03-08 Differential geometry began as the study of curves and surfaces using the methods of calculus In time the notions of curve and surface were generalized along with associated notions such as length volume and curvature At the same time the topic has become closely allied with developments in topology The basic object is a smooth manifold to which some extra structure has been attached such as a Riemannian metric a symplectic form a distinguished group of symmetries or a connection on the tangent bundle This book is a graduate level introduction to the tools and structures of modern differential geometry Included are the topics usually found in a course on differentiable manifolds such as vector bundles tensors differential forms de Rham cohomology the Frobenius theorem and basic Lie group theory The book also contains material on the general theory of connections on vector bundles and an in depth chapter on semi Riemannian geometry that covers basic material about Riemannian manifolds and Lorentz manifolds An unusual feature of the book is the inclusion of an early chapter on the differential geometry of hypersurfaces in Euclidean space There is also a section that derives the exterior calculus version of Maxwell s equations The first chapters of the book are suitable for a one semester course on manifolds There is more than enough material for a year long course on manifolds and geometry *Modern Differential Geometry in Gauge Theories* Anastasios Mallios,2006-07-27 This is original well written work of interest Presents for the first time physical field theories written in sheaf theoretic language Contains a wealth of minutely detailed rigorous computations ususally absent from standard physical treatments Author s mastery of the subject and the rigorous treatment of this text make it invaluable **The Geometry of Spacetime** James J. Callahan,2013-03-09 In 1905 Albert Einstein offered a revolutionary theory special relativity to explain some of the most troubling problems in current physics concerning electromagnetism and motion Soon afterwards Hermann Minkowski recast special relativity essentially as a new geometric structure for spacetime These ideas are the subject of the first part of the book The second part develops the main implications of Einstein s general relativity as a theory of gravity rooted in the differential geometry of surfaces The author explores the way an individual observer views the world and how a pair of observers collaborates to gain objective knowledge of the world He has tried to encompass both the general and special theory by using the geometry of spacetime as the unifying theme of the book To read it one needs only a first course in linear algebra and multivariable calculus and familiarity with the physical applications of calculus **Computational Information Geometry** Frank Nielsen,Frank Critchley,Christopher T. J. Dodson,2016-11-24 This book focuses on the application and development of information geometric methods in the analysis classification and retrieval of images and signals It provides introductory chapters to help those new to information geometry and applies the theory to several

applications This area has developed rapidly over recent years propelled by the major theoretical developments in information geometry efficient data and image acquisition and the desire to process and interpret large databases of digital information The book addresses both the transfer of methodology to practitioners involved in database analysis and in its efficient computational implementation   Global Lorentzian Geometry John K. Beem,2017-09-29 Bridging the gap between modern differential geometry and the mathematical physics of general relativity this text in its second edition includes new and expanded material on topics such as the instability of both geodesic completeness and geodesic incompleteness for general space times geodesic connectibility the generic condition the sectional curvature function in a neighbourhood of degenerate two plane and proof of the Lorentzian Splitting Theorem Five or more copies may be ordered by college or university stores at a special student price available on request   Representation Surfaces for Physical Properties of Materials Manuel Laso,Nieves Jimeno,2020-04-04 This textbook presents all the mathematical and physical concepts needed to visualize and understand representation surfaces providing readers with a reliable and intuitive understanding of the behavior and properties of anisotropic materials and a sound grasp of the directionality of material properties They will learn how to extract quantitative information from representation surfaces which encode tremendous amounts of information in a very concise way making them especially useful in understanding higher order tensorial material properties piezoelectric moduli elastic compliance and rigidity etc and in the design of applications based on these materials Readers will also learn from scratch concepts on crystallography symmetry and Cartesian tensors which are essential for understanding anisotropic materials their design and application The book describes how to apply representation surfaces to a diverse range of material properties making it a valuable resource for material scientists mechanical engineers and solid state physicists as well as advanced undergraduates in Materials Science Solid State Physics Electronics Optics Mechanical Engineering Composites and Polymer Science Moreover the book includes a wealth of worked out examples problems and exercises to help further understanding   **Relativity and Geometry** Roberto Torretti,1996-01-01 Early in this century it was shown that the new non Newtonian physics known as Einstein s Special Theory of Relativity rested on a new non Euclidean geometry which incorporated time and space into a unified chronogeometric structure This high level study elucidates the motivation and significance of the changes in physical geometry brought about by Einstein in both the first and the second phase of Relativity After a discussion of Newtonian principles and 19th century views on electrodynamics and the aether the author offers illuminating expositions of Einstein s electrodynamics of moving bodies Minkowski spacetime Einstein s quest for a theory of gravity gravitational geometry the concept of simultaneity time and causality and other topics An important Appendix designed to define spacetime curvature considers differentiable manifolds fiber bundles linear connections and useful formulae Relativity continues to be a major focus of interest for physicists mathematicians and philosophers of science This highly regarded work offers them a rich historico critical exposition emphasizing geometrical ideas of the elements of

the Special and General Theory of Relativity   <u>Handbook of Research on Computational Grid Technologies for Life Sciences, Biomedicine, and Healthcare</u> Cannataro, Mario,2009-05-31 This book provides methodologies and developments of grid technologies applied in different fields of life sciences Provided by publisher   **Séminaire de Probabilités XLII** Catherine Donati-Martin,Michel Émery,Alain Rouault,Christophe Stricker,2009-06-29 The tradition of specialized courses in the S minaires de Probabilit s is continued with A Lejay s Another introduction to rough paths Other topics from this 42nd volume range from the interface between analysis and probability to special processes L vy processes and L vy systems branching penalization representation of Gaussian processes filtrations and quantum probability   <u>Symmetry, Representations, and Invariants</u> Roe Goodman,Nolan R. Wallach,2009-07-30 Symmetry is a key ingredient in many mathematical physical and biological theories Using representation theory and invariant theory to analyze the symmetries that arise from group actions and with strong emphasis on the geometry and basic theory of Lie groups and Lie algebras Symmetry Representations and Invariants is a significant reworking of an earlier highly acclaimed work by the authors The result is a comprehensive introduction to Lie theory representation theory invariant theory and algebraic groups in a new presentation that is more accessible to students and includes a broader range of applications The philosophy of the earlier book is retained i e presenting the principal theorems of representation theory for the classical matrix groups as motivation for the general theory of reductive groups The wealth of examples and discussion prepares the reader for the complete arguments now given in the general case Key Features of Symmetry Representations and Invariants 1 Early chapters suitable for honors undergraduate or beginning graduate courses requiring only linear algebra basic abstract algebra and advanced calculus 2 Applications to geometry curvature tensors topology Jones polynomial via symmetry and combinatorics symmetric group and Young tableaux 3 Self contained chapters appendices comprehensive bibliography 4 More than 350 exercises most with detailed hints for solutions further explore main concepts 5 Serves as an excellent main text for a one year course in Lie group theory 6 Benefits physicists as well as mathematicians as a reference work   <u>Mathematics Form and Function</u> Saunders MacLane,2012-12-06 This book records my efforts over the past four years to capture in words a description of the form and function of Mathematics as a background for the Philosophy of Mathematics My efforts have been encouraged by lec tures that I have given at Heidelberg under the auspices of the Alexander von Humboldt Stiftung at the University of Chicago and at the University of Minnesota the latter under the auspices of the Institute for Mathematics and Its Applications Jean Benabou has carefully read the entire manuscript and has offered incisive comments George Glauberman Car los Kenig Christopher Mulvey R Narasimhan and Dieter Puppe have provided similar comments on chosen chapters Fred Linton has pointed out places requiring a more exact choice of wording Many conversations with George Mackey have given me important insights on the nature of Mathematics I have had similar help from Alfred Aeppli John Gray Jay Goldman Peter Johnstone Bill Lawvere and Roger Lyndon Over the years I have profited from discussions of general issues with my

colleagues Felix Browder and Melvin Rothenberg Ideas from Tammo Tom Dieck Albrecht Dold Richard Lashof and Ib Madsen have assisted in my study of geometry Jerry Bona and B L Foster have helped with my examina tion of mechanics My observations about logic have been subject to con structive scrutiny by Gert Miiller Marian Boykan Pour El Ted Slaman R Voreadou Volker Weispfennig and Hugh Woodin *Virtual Reality Software And Technology - Proceedings Of The Vrst '94 Conference* Gurminder Singh,Steven Keith Feiner,Daniel Thalmann,1994-08-18 Few technologies in recent years have attracted as much scientific media and public attention as Virtual Reality By providing a profoundly new paradigm for human computer interaction it is fundamentally changing the way people use and think about computers Despite being in its infancy Virtual Reality has found applications in such varied fields as entertainment interactive arts medicine architecture security education and financial analysis The articles collected here were selected after thorough review and describe the state of the art in Virtual Reality software and technology Included are the latest results in software architectures interaction techniques and devices modeling techniques and applications <u>Scientific and Technical Books and Serials in Print</u> ,1989

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