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Ramesh Sharma

Symmetries of Spacetimes and Riemannian Manifolds
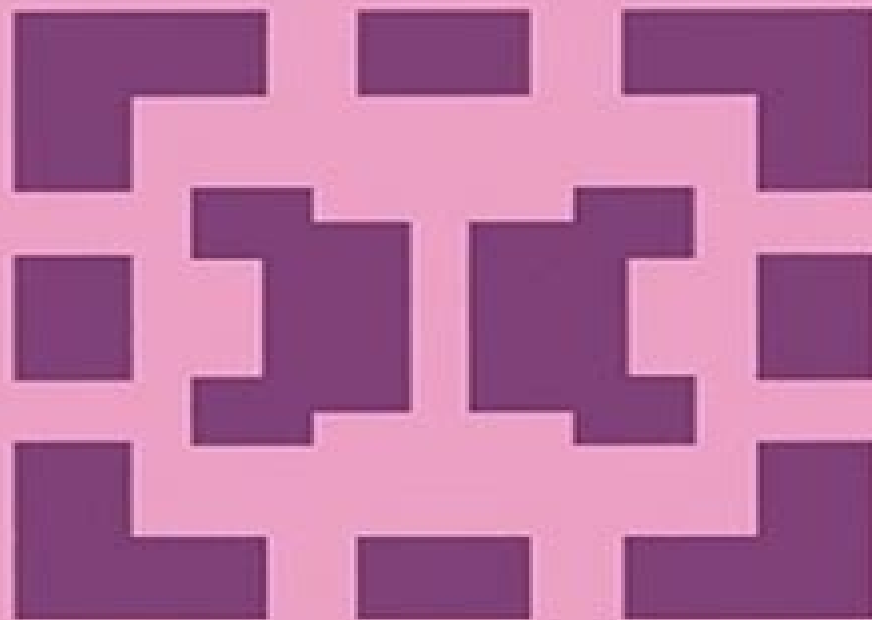
Symmetries Of Spacetimes And Riemannian Manifolds

Bang-yen Chen

Symmetries Of Spacetimes And Riemannian Manifolds:

   Symmetries of Spacetimes and Riemannian Manifolds Krishan L. Duggal,Ramesh Sharma,2013-11-22 This book provides an upto date information on metric connection and curva ture symmetries used in geometry and physics More specifically we present the characterizations and classifications of Riemannian and Lorentzian manifolds in particular the spacetimes of general relativity admitting metric i e Killing ho mothetic and conformal connection i e affine conformal and projective and curvature symmetries Our approach in this book has the following outstanding features a It is the first ever attempt of a comprehensive collection of the works of a very large number of researchers on all the above mentioned symmetries b We have aimed at bringing together the researchers interested in differential geometry and the mathematical physics of general relativity by giving an invariant as well as the index form of the main formulas and results c Attempt has been made to support several main mathematical results by citing physical example s as applied to general relativity d Overall the presentation is self contained fairly accessible and in some special cases supported by an extensive list of cited references e The material covered should stimulate future research on symmetries Chapters 1 and 2 contain most of the prerequisites for reading the rest of the book We present the language of semi Euclidean spaces manifolds their tensor calculus geometry of null curves non degenerate and degenerate light like hypersurfaces All this is described in invariant as well as the index form   *Symmetries of Spacetimes and Riemannian Manifolds* Krishan Duggal,Ramesh Sharma,2014-09-01

   Advances in Differential Geometry and General Relativity John K. Beem,Stamatis A. Dostoglou,Paul E. Ehrlich,2004 This volume consists of expanded versions of invited lectures given at The Beemfest Advances in Differential Geometry and General Relativity University of Missouri Columbia on the occasion of Professor John K Beem s retirement The articles address problems in differential geometry in general and in particular global Lorentzian geometry Finsler geometry causal boundaries Penrose s cosmic censorship hypothesis the geometry of differential operators with variable coefficients on manifolds and asymptotically de Sitter spacetimes satisfying Einstein s equations with positive cosmological constant The book is suitable for graduate students and research mathematicians interested in differential geometry   **Recent Developments in Pseudo-Riemannian Geometry** Dmitriĭ Vladimirovich Alekseevskiĭ,2008 This book provides an introduction to and survey of recent developments in pseudo Riemannian geometry including applications in mathematical physics by leading experts in the field Topics covered are Classification of pseudo Riemannian symmetric spaces Holonomy groups of Lorentzian and pseudo Riemannian manifolds Hypersymplectic manifolds Anti self dual conformal structures in neutral signature and integrable systems Neutral Kahler surfaces and geometric optics Geometry and dynamics of the Einstein universe Essential conformal structures and conformal transformations in pseudo Riemannian geometry The causal hierarchy of spacetimes Geodesics in pseudo Riemannian manifolds Lorentzian symmetric spaces in supergravity Generalized geometries in supergravity Einstein metrics with Killing leaves The book is addressed to advanced students as well as to

researchers in differential geometry global analysis general relativity and string theory It shows essential differences between the geometry on manifolds with positive definite metrics and on those with indefinite metrics and highlights the interesting new geometric phenomena which naturally arise in the indefinite metric case The reader finds a description of the present state of the art in the field as well as open problems which can stimulate further research   Handbook of Differential Geometry Franki J.E. Dillen,Leopold C.A. Verstraelen,2005-11-29 In the series of volumes which together will constitute the Handbook of Differential Geometry we try to give a rather complete survey of the field of differential geometry The different chapters will both deal with the basic material of differential geometry and with research results old and recent All chapters are written by experts in the area and contain a large bibliography In this second volume a wide range of areas in the very broad field of differential geometry is discussed as there are Riemannian geometry Lorentzian geometry Finsler geometry symplectic geometry contact geometry complex geometry Lagrange geometry and the geometry of foliations Although this does not cover the whole of differential geometry the reader will be provided with an overview of some its most important areas Written by experts and covering recent research Extensive bibliography Dealing with a diverse range of areas Starting from the basics   **Null Curves And Hypersurfaces Of Semi-riemannian Manifolds** Krishan L Duggal,Ho Jin Dae,2007-09-03 This is a first textbook that is entirely focused on the up to date developments of null curves with their applications to science and engineering It fills an important gap in a second level course in differential geometry as well as being essential for a core undergraduate course on Riemannian curves and surfaces The sequence of chapters is arranged to provide in depth understanding of a chapter and stimulate further interest in the next The book comprises a large variety of solved examples and rigorous exercises that range from elementary to higher levels This unique volume is self contained and unified in presenting   Hermitian–Grassmannian Submanifolds Young Jin Suh,Yoshihiro Ohnita,Jiazu Zhou,Byung Hak Kim,Hyunjin Lee,2017-09-14 This book presents the proceedings of the 20th International Workshop on Hermitian Symmetric Spaces and Submanifolds which was held at the Kyungpook National University from June 21 to 25 2016 The Workshop was supported by the Research Institute of Real and Complex Manifolds RIRCM and the National Research Foundation of Korea NRF The Organizing Committee invited 30 active geometers of differential geometry and related fields from all around the globe to discuss new developments for research in the area These proceedings provide a detailed overview of recent topics in the field of real and complex submanifolds   *Differential Geometry Of Warped Product Manifolds And Submanifolds* Bang-yen Chen,2017-05-29 A warped product manifold is a Riemannian or pseudo Riemannian manifold whose metric tensor can be decomposed into a Cartesian product of the y geometry and the x geometry except that the x part is warped that is it is rescaled by a scalar function of the other coordinates y The notion of warped product manifolds plays very important roles not only in geometry but also in mathematical physics especially in general relativity In fact many basic solutions of the Einstein field equations including the Schwarzschild solution and the Robertson Walker models are warped product

manifolds The first part of this volume provides a self contained and accessible introduction to the important subject of pseudo Riemannian manifolds and submanifolds The second part presents a detailed and up to date account on important results of warped product manifolds including several important spacetimes such as Robertson Walker s and Schwarzschild s The famous John Nash s embedding theorem published in 1956 implies that every warped product manifold can be realized as a warped product submanifold in a suitable Euclidean space The study of warped product submanifolds in various important ambient spaces from an extrinsic point of view was initiated by the author around the beginning of this century The last part of this volume contains an extensive and comprehensive survey of numerous important results on the geometry of warped product submanifolds done during this century by many geometers *Geometry of Submanifolds and Applications* Bang-Yen Chen,Majid Ali Choudhary,Mohammad Nazrul Islam Khan,2024-03-26 This book features chapters written by renowned scientists from various parts of the world providing an up to date survey of submanifold theory spanning diverse topics and applications The book covers a wide range of topics such as Chen Ricci inequalities in differential geometry optimal inequalities for Casorati curvatures in quaternion geometry conformal Ricci Yamabe solitons submersion on statistical metallic structure solitons in f R T gravity metric affine geometry generalized Wintgen inequalities tangent bundles and Lagrangian submanifolds Moreover the book showcases the latest findings on Pythagorean submanifolds and submanifolds of four dimensional f manifolds The chapters in this book delve into numerous problems and conjectures on submanifolds providing valuable insights for scientists educators and graduate students looking to stay updated with the latest developments in the field With its comprehensive coverage and detailed explanations this book is an essential resource for anyone interested in submanifold theory **Mathematical Physics - Proceedings Of The 13th Regional Conference** Ibrahim Semiz,Ugur Camci,2012-10-08 This volume showcases selected recent work presented at the 13th Regional Conference on Mathematical Physics held in Antalya Turkey in 2010 The conference was dedicated to the memory of Faheem Hussain one of the initiators of the Regional Conference series and one of the organizers of the 12th Regional Conference The region originally comprised of Turkey Iran and Pakistan extends now to Bangladesh and Central Asia However the contributing researchers are not only limited to this region Prominent contributors include B Ahmedov Tashkent F Ardalan Tehran N Dadhich Pune D A Demir zmir R L Hall Montreal M Horta su stanbul M Koca Oman C S Lim Kobe F Mahomed Johannesburg A Qadir Rawalpindi M A Rashid Rawalpindi M Sakamoto Kobe M Sharif Lahore F Toppan Rio N nal Antalya amongst others They sample a number of topics in the formal aspects of mathematical physics general relativity and cosmology quantum gravity quantum field theory and even applied physics Geometry, Symmetries, and Classical Physics Manousos Markoutsakis,2021-12-28 This book provides advanced undergraduate physics and mathematics students with an accessible yet detailed understanding of the fundamentals of differential geometry and symmetries in classical physics Readers working through the book will obtain a thorough understanding of symmetry principles and their application in

mechanics field theory and general relativity and in addition acquire the necessary calculational skills to tackle more sophisticated questions in theoretical physics Most of the topics covered in this book have previously only been scattered across many different sources of literature therefore this is the first book to coherently present this treatment of topics in one comprehensive volume Key features Contains a modern streamlined presentation of classical topics which are normally taught separately Includes several advanced topics such as the Belinfante energy momentum tensor the Weyl Schouten theorem the derivation of Noether currents for diffeomorphisms and the definition of conserved integrals in general relativity Focuses on the clear presentation of the mathematical notions and calculational technique *Differentiable and Complex Dynamics of Several Variables* Pei-Chu Hu,Chung-Chun Yang,2013-04-17 The development of dynamics theory began with the work of Isaac Newton In his theory the most basic law of classical mechanics is f ma which describes the motion n in IR of a point of mass m under the action of a force f by giving the acceleration a If n the position of the point is taken to be a point x E IR and if the force f is supposed to be a function of x only Newton s Law is a description in terms of a second order ordinary differential equation J2x m dt f x 2 It makes sense to reduce the equations to first order by defining the velo city as an extra n independent variable by v i E IR Then x v mv f x L Euler J L Lagrange and others studied mechanics by means of an analytical method called analytical dynamics Whenever the force f is represented by a gradient vector field f lU of the potential energy U and denotes the difference of the kinetic energy and the potential energy by 1 L x v 2 m v v U x the Newton equation of motion is reduced to the Euler Lagrange equation are used as the variables the Euler Lagrange equation can be If the momenta y written as 8L y 8x Further W R **Operational Symmetries** Heinrich Saller,2017-06-19 This book describes the endeavour to relate the particle spectrum with representations of operational electroweak spacetime in analogy to the atomic spectrum as characterizing representations of hyperbolic space The spectrum of hyperbolic position space explains the properties of the nonrelativistic atoms the spectrum of electroweak spacetime is hoped to explain those of the basic interactions and elementary particles In this book the theory of operational symmetries is developed from the numbers from Plato s and Kepler s symmetries over the simple Lie groups to their applications in nonrelativistic special relativistic and general relativistic quantum theories with the atomic spectrum for hyperbolic position and in first attempts the particle spectrum for electroweak spacetime The standard model of elementary particles and interactions is characterized by a symmetry group In general as initiated by Weyl and stressed by Heisenberg quantum theory can be built as a theory of operation groups and their unitary representations In such a framework time position and spacetime is modeled by equivalence classes of symmetry groups For a unification on this road the quest is not for a final theory with a basic equation for basic particles but for the basic operation group and its representations **The Tenth Marcel Grossmann Meeting** M. Novello,Santiago E. Perez Bergliaffa,Remo Ruffini,2005 The Marcel Grossmann meetings were conceived to promote theoretical understanding in the fields of physics mathematics astronomy and astrophysics and to

direct future technological observational and experimental efforts They review recent developments in gravitation and general relativity with major emphasis on mathematical foundations and physical predictions Their main objective is to bring together scientists from diverse backgrounds and their range of topics is broad from more abstract classical theory and quantum gravity and strings to more concrete relativistic astrophysics observations and modeling This Tenth Marcel Grossmann Meeting was organized by an international committee composed of D Blair Y Choquet Bruhat D Christodoulou T Damour J Ehlers F Everitt Fang Li Zhi S Hawking Y Ne eman R Ruffini chair H Sato R Sunyaev and S Weinberg and backed by an international coordinating committee of about 135 members from scientific institutions representing 54 countries The scientific program included 29 morning plenary talks during 6 days and 57 parallel sessions over five afternoons during which roughly 500 papers were presented These three volumes of the proceedings of MG10 give a broad view of all aspects of gravitation from mathematical issues to recent observations and experiments *Tenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical & Experimental General Relativity, Gravitation, & Relativistic Field Theories (In 3 Vols) - Procs Of The Mg10 Meeting Held At Brazilian Ctr For Res In Phys (Cbpf)* Mario Novello,Santiago Perez Bergliaffa,Remo Ruffini,2006-02-17 The Marcel Grossmann meetings were conceived to promote theoretical understanding in the fields of physics mathematics astronomy and astrophysics and to direct future technological observational and experimental efforts They review recent developments in gravitation and general relativity with major emphasis on mathematical foundations and physical predictions Their main objective is to bring together scientists from diverse backgrounds and their range of topics is broad from more abstract classical theory and quantum gravity and strings to more concrete relativistic astrophysics observations and modeling This Tenth Marcel Grossmann Meeting was organized by an international committee composed of D Blair Y Choquet Bruhat D Christodoulou T Damour J Ehlers F Everitt Fang Li Zhi S Hawking Y Ne eman R Ruffini chair H Sato R Sunyaev and S Weinberg and backed by an international coordinating committee of about 135 members from scientific institutions representing 54 countries The scientific program included 29 morning plenary talks during 6 days and 57 parallel sessions over five afternoons during which roughly 500 papers were presented These three volumes of the proceedings of MG10 give a broad view of all aspects of gravitation from mathematical issues to recent observations and experiments *Integrable Systems, Quantum Groups, and Quantum Field Theories* Alberto Ibort,M.A. Rodríguez,2012-12-06 In many ways the last decade has witnessed a surge of interest in the interplay between theoretical physics and some traditional areas of pure mathematics This book contains the lectures delivered at the NATO ASI Summer School on Recent Problems in Mathematical Physics held at Salamanca Spain 1992 offering a pedagogical and updated approach to some of the problems that have been at the heart of these events Among them we should mention the new mathematical structures related to integrability and quantum field theories such as quantum groups conformal field theories integrable statistical models and topological quantum field theories that are discussed at length by

some of the leading experts on the areas in several of the lectures contained in the book Apart from these traditional and new problems in quantum gravity are reviewed Other contributions to the School included in the book range from symmetries in partial differential equations to geometrical phases in quantum physics The book is addressed to researchers in the fields covered PhD students and any scientist interested in obtaining an updated view of the subjects **Differential Geometry and Mathematical Physics** John K. Beem,Krishan L. Duggal,American Mathematical Society,Canadian Mathematical Society,1994 This book contains the proceedings of the Special Session Geometric Methods in Mathematical Physics held at the joint AMS CMS meeting in Vancouver in August 1993 The papers collected here contain a number of new results in differential geometry and its applications to physics The major themes include black holes singularities censorship the Einstein field equations geodesics index theory submanifolds CR structures and space time symmetries In addition there are papers on Yang Mills fields geometric techniques in control theory and equilibria Containing new results by established researchers in the field this book provides a look at developments in this exciting area of research **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 *Communications in Applied Analysis* ,2007 **Operational Spacetime** Heinrich Saller,2009-10-28 The book provides readers with an understanding of the mutual conditioning of spacetime and interactions and matter The spacetime manifold will be looked at to be a reservoir for the parametrization of operation Lie groups or subgroup classes of Lie groups With basic operation groups or Lie algebras all physical structures can be interpreted in terms of corresponding realizations or representations Physical properties are related eigenvalues or invariants As an explicit example of operational spacetime is proposed called electroweak spacetime parametrizing the classes of the internal hypercharge isospin group in the general linear group in two complex dimensions i e the Lorentz cover group extended by the casual dilation and phase group Its representations and invariants will be investigated with the aim to connect them qualitatively and numerically with the properties of interactions and particles as arising in the representations of its tangent Minkowski spaces

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