

Representations

General descriptors

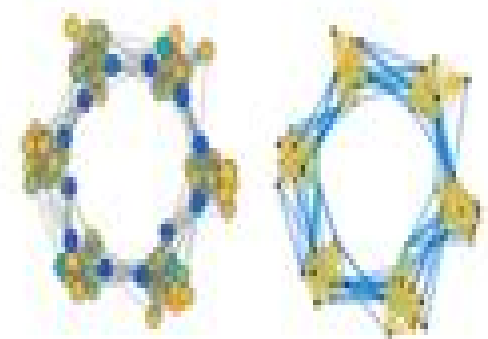
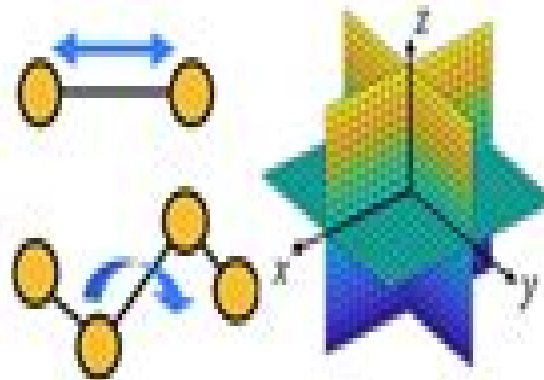
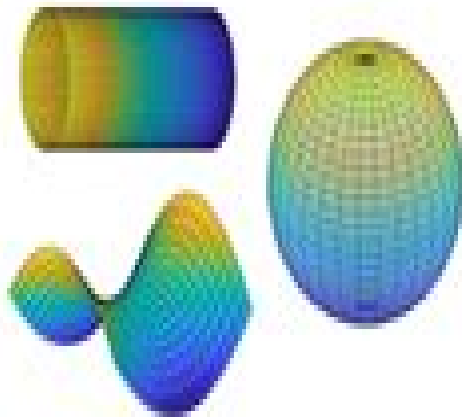
Intrinsic descriptors

1D curve, 2D surface, 3D volume, high-dimension geometry, etc.

Position, dimension, distance, angle, perimeter, surface area, volume, etc.

Gaussian curvature, Ricci curvature, Riemann curvature tensor, etc.

Geometry

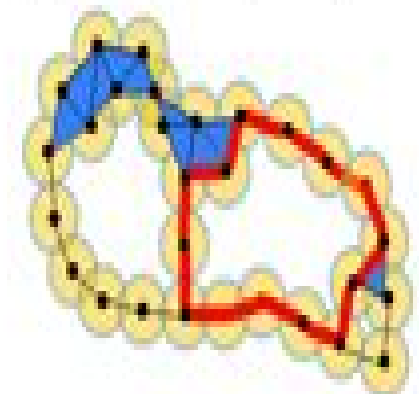
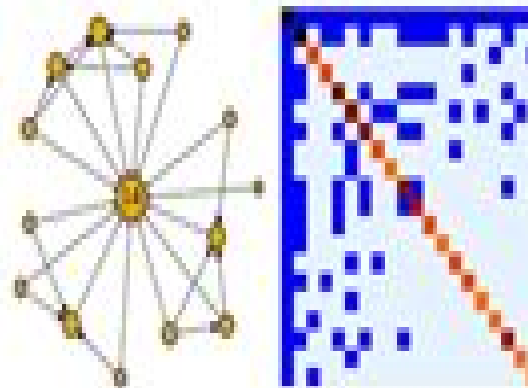
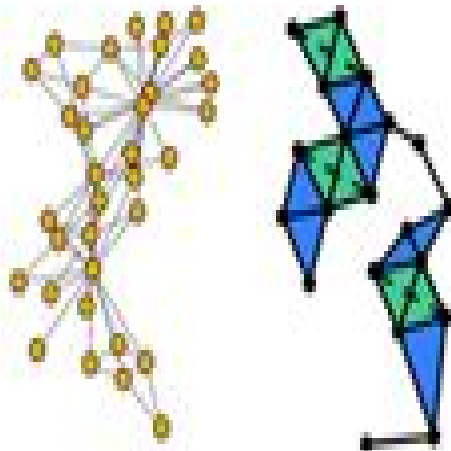


Point cloud, curve, graph, network, simplicial complex, hypergraph, etc.

Node degree, cluster coefficient, closeness, centrality, betweenness, etc

Homotopy, homology, cohomology, Betti number, Euler characteristics, knot polynomial, Conley index, etc

Topology



Geometry And Topology

Gregory L. Naber



Geometry And Topology:

Geometry, Topology and Physics Mikio Nakahara, 2018-10-03 Differential geometry and topology have become essential tools for many theoretical physicists. In particular, they are indispensable in theoretical studies of condensed matter physics, gravity, and particle physics. *Geometry, Topology and Physics* Second Edition introduces the ideas and techniques of differential geometry and topology at a level suitable for postgraduate students and researchers in these fields. The second edition of this popular and established text incorporates a number of changes designed to meet the needs of the reader and reflect the development of the subject. The book features a considerably expanded first chapter reviewing aspects of path integral quantization and gauge theories. Chapter 2 introduces the mathematical concepts of maps, vector spaces, and topology. The following chapters focus on more elaborate concepts in geometry and topology and discuss the application of these concepts to liquid crystals, superfluid helium, general relativity, and bosonic string theory. Later chapters unify geometry and topology, exploring fiber bundles, characteristic classes, and index theorems. New to this second edition is the proof of the index theorem in terms of supersymmetric quantum mechanics. The final two chapters are devoted to the most fascinating applications of geometry and topology in contemporary physics, namely the study of anomalies in gauge field theories and the analysis of Polakov's bosonic string theory from the geometrical point of view. *Geometry, Topology and Physics* Second Edition is an ideal introduction to differential geometry and topology for postgraduate students and researchers in theoretical and mathematical physics.

Topology and Geometry Glen E. Bredon, 1993-06-24 This book offers an introductory course in algebraic topology. Starting with general topology, it discusses differentiable manifolds, cohomology, products, and duality, the fundamental group, homology theory, and homotopy theory. From the reviews: "An interesting and original graduate text in topology and geometry; a good lecturer can use this text to create a fine course. A beginning graduate student can use this text to learn a great deal of mathematics." **MATHEMATICAL REVIEWS**

Geometry and Topology Martin A. McCrory, 2020-12-18 This book discusses topics ranging from traditional areas of topology such as knot theory and the topology of manifolds to areas such as differential and algebraic geometry. It also discusses other topics such as three-manifolds, group actions, and algebraic varieties.

Geometry and Topology of Manifolds: Surfaces and Beyond Vicente Muñoz, Ángel González-Prieto, Juan Ángel Rojo, 2020-10-21 This book represents a novel approach to differential topology. Its main focus is to give a comprehensive introduction to the classification of manifolds, with special attention paid to the case of surfaces, for which the book provides a complete classification from many points of view: topological, smooth, constant curvature, complex, and conformal. Each chapter briefly revisits basic results usually known to graduate students from an alternative perspective, focusing on surfaces. We provide full proofs of some remarkable results that sometimes are missed in basic courses, e.g., the construction of triangulations on surfaces, the classification of surfaces, the Gauss-Bonnet theorem, the degree-genus formula for complex plane curves, the existence of constant curvature metrics on conformal surfaces, and we

give hints to questions about higher dimensional manifolds Many examples and remarks are scattered through the book Each chapter ends with an exhaustive collection of problems and a list of topics for further study The book is primarily addressed to graduate students who did take standard introductory courses on algebraic topology differential and Riemannian geometry or algebraic geometry but have not seen their deep interconnections which permeate a modern approach to geometry and topology of manifolds

Geometry, Topology, & Physics for Raoul Bott Shing-Tung Yau, Raoul Bott, 1995 In 1993 a conference was held honouring mathematician Raoul Bott on his 70th birthday The lectures given at this conference along with other important mathematical contributions are presented in this volume in honour of Raoul Bott

Differential Geometry and Topology Jacob T. Schwartz, 1966 [Geometry, Topology, and Dynamics in Negative Curvature](#) C. S.

Aravinda, F. Thomas Farrell, Jean-François Lafont, 2016-01-21 Ten high quality survey articles provide an overview of important recent developments in the mathematics surrounding negative curvature *Topology as Fluid Geometry* James W. Cannon, 2017 This is the second of a three volume collection devoted to the geometry topology and curvature of 2 dimensional spaces The collection provides a guided tour through a wide range of topics by one of the twentieth century s masters of geometric topology The books are accessible to college and graduate students and provide perspective and insight to mathematicians at all levels who are interested in geometry and topology The second volume deals with the topology of 2 dimensional spaces The attempts encountered in Volume 1 to understand length and area in the plane lead to examples most easily described by the methods of topology fluid geometry finite curves of infinite length 1 dimensional curves of positive area space filling curves Peano curves 0 dimensional subsets of the plane through which no straight path can pass Cantor sets etc Volume 2 describes such sets All of the standard topological results about 2 dimensional spaces are then proved such as the Fundamental Theorem of Algebra two proofs the No Retraction Theorem the Brouwer Fixed Point Theorem the Jordan Curve Theorem the Open Mapping Theorem the Riemann Hurwitz Theorem and the Classification Theorem for Compact 2 manifolds Volume 2 also includes a number of theorems usually assumed without proof since their proofs are not readily available for example the Zippin Characterization Theorem for 2 dimensional spaces that are locally Euclidean the Schoenflies Theorem characterizing the disk the Triangulation Theorem for 2 manifolds and the R L Moore s Decomposition Theorem so useful in understanding fractal sets

Handbook of Geometry and Topology of Singularities II José Luis Cisneros-Molina, Dũng Tráng Lê, José Seade, 2021-11-01 This is the second volume of the Handbook of the Geometry and Topology of Singularities a series which aims to provide an accessible account of the state of the art of the subject its frontiers and its interactions with other areas of research This volume consists of ten chapters which provide an in depth and reader friendly survey of some of the foundational aspects of singularity theory and related topics Singularities are ubiquitous in mathematics and science in general Singularity theory interacts energetically with the rest of mathematics acting as a crucible where different types of mathematical problems interact surprising connections are born and simple

questions lead to ideas which resonate in other parts of the subject and in other subjects Authored by world experts the various contributions deal with both classical material and modern developments covering a wide range of topics which are linked to each other in fundamental ways The book is addressed to graduate students and newcomers to the theory as well as to specialists who can use it as a guidebook

Geometry, Topology and Dynamics of Character Varieties William Mark Goldman, Caroline Series, Ser Peow Tan, 2012 This book aims to describe for readers uneducated in science the development of humanity's desire to know and understand the world around us through the various stages of its development to the present when science is almost universally recognized at least in the Western world as the most reliable way of knowing The book describes the history of the large scale exploration of the surface of the earth by sea beginning with the Vikings and the Chinese and of the unknown interiors of the American and African continents by foot and horseback After the invention of the telescope visual exploration of the surfaces of the Moon and Mars were made possible and finally a visit to the Moon The book then turns to our legacy from the ancient Greeks of wanting to understand rather than just know and why the scientific way of understanding is valued For concreteness it relates the lives and accomplishments of six great scientists four from the nineteenth century and two from the twentieth Finally the book explains how chemistry came to be seen as the most basic of the sciences and then how physics became the most fundamental

Geometry and Topology Mccrory, 1986-10-22 *Basic Elements of Differential Geometry and Topology* S.P. Novikov, A.T. Fomenko, 2013-03-14 One service mathematics has rendered the Et moi si j'avais su comment en revenir je n'y serais point aile human race It has put common sense back Jules Verne where it belongs on the topmost shelf next to the dusty canister labelled discarded n sense The series is divergent therefore we may be able to do something with it Eric T Bell O Heavieside Mathtnatics is a tool for thought A highly necessary tool in a world where both feedback and non linearities abound Similarly all kinds of parts of mathematics seNe as tools for other parts and for other sciences Applying a simple rewriting rule to the quote on the right above one finds such statements as One service topology has rendered mathematical physics One service logic has rendered com puter science One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the raison d'etre of this series

Topology, Geometry and Gauge fields Gregory L. Naber, 2013-04-19 A study of topology and geometry beginning with a comprehensible account of the extraordinary and rather mysterious impact of mathematical physics and especially gauge theory on the study of the geometry and topology of manifolds The focus of the book is the Yang Mills Higgs field and some considerable effort is expended to make clear its origin and significance in physics Much of the mathematics developed here to study these fields is standard but the treatment always keeps one eye on the physics and sacrifices generality in favor of clarity The author brings readers up to the level of physics and mathematics needed to conclude with a brief discussion of the Seiberg Witten invariants A large number of exercises are included to encourage active participation on the part of the reader

GEOMETRY, TOPOLOGY AND PHYSICS. M. NAKAHARA, 1999 Geometry

Topology and Physics is an ideal introduction to differential geometry and topology for postgraduate students and researchers in theoretical and mathematical physics

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Geometry, Topology and Quantization P. Bandyopadhyay, 1996-10-31 This is a monograph on geometrical and topological features which arise in various quantization procedures Quantization schemes consider the feasibility of arriving at a quantum system from a classical one and these involve three major procedures viz i geometric quantization ii Klauder quantization and iii stochastic quantization In geometric quantization we have to incorporate a hermitian line bundle to effectively generate the quantum Hamiltonian operator from a classical Hamiltonian Klauder quantization also takes into account the role of the connection one form along with coordinate independence In stochastic quantization as proposed by Nelson Schrodinger equation is derived from Brownian motion processes however we have difficulty in its relativistic generalization It has been pointed out by several authors that this may be circumvented by formulating a new geometry where Brownian motion processes are considered in external as well as in internal space and when the complexified space time is considered the usual path integral formulation is achieved When this internal space variable is considered as a direction vector introducing an anisotropy in the internal space we have the quantization of a Fermi field This helps us to formulate a stochastic phase space formalism when the internal extension can be treated as a gauge theoretic extension This suggests that massive fermions may be considered as Skyrme solitons The nonrelativistic quantum mechanics is achieved in the sharp point limit

The Geometry, Topology And Physics Of Moduli Spaces Of Higgs Bundles Richard Wentworth, Graeme Wilkin, 2018-06-28 In the 25 years since their introduction Higgs bundles have seen a surprising number of interactions within different areas of mathematics and physics There is a recent surge of interest following Ng Bau Chau's proof of the Fundamental Lemma and the work of Kapustin and Witten on the Geometric Langlands program The program on The Geometry Topology and Physics of Moduli Spaces of Higgs Bundles was held at the Institute for Mathematical Sciences at the National University of Singapore during 2014 It hosted a number of lectures on recent topics of importance related to Higgs bundles and it is the purpose of this volume to collect these lectures in a form accessible to graduate students and young researchers interested in learning more about this field

Topology, Geometry, and Gauge Fields Gregory Naber, 1997-04-24 Like any books on a subject as vast as this this book has to have a point of view to guide the selection of topics Naber takes the view that the rekindled interest that mathematics and physics have shown in each other of late should be fostered and that this is best accomplished by allowing them to cohabit The book weaves together rudimentary notions from the classical gauge theory of physics with the topological and geometrical concepts that became the mathematical models of these notions The reader is asked to join the author on some vague notion of what an electromagnetic field might be to be willing to accept a few of the more elementary pronouncements of quantum mechanics and to have a solid background in real analysis and linear algebra and some of the vocabulary of modern algebra In return the book offers an excursion that begins with the definition of a topological space

and finds its way eventually to the moduli space of anti self dual SU 2 connections on S^4 with instanton number 1

Extended Abstracts GEOMVAP 2019 Maria Alberich-Carramiñana, Guillem Blanco, Immaculada Gálvez Carrillo, Marina Garrote-López, Eva Miranda, 2021-12-04 This book comprises an overview of twelve months of intense activity of the research group Geometry Topology Algebra and Applications GEOMVAP at the Universitat Politècnica de Catalunya UPC Namely it contains extended abstracts of the group meeting in Cardona and of the international Workshop of Women in Geometry and Topology aligned with a series of workshops in the topic As such it includes a panoramic view of the main research interests of the group which focus on varieties and manifolds from the algebraic topological and differential perspective with a view towards applications The GEOMVAP group has a long tradition working on various interfaces of algebra geometry and topology In the last decade the group has become active contributor in interdisciplinary science and it is now focused on both a theoretical point of view and the transversal applications to several disciplines including Robotics Machine Learning Phylogenetics Physics and Celestial Mechanics The increasing interdisciplinarity of modern research and the fact that the boundaries between different areas of mathematics are vanishing with a constant transfer of problems and techniques between them makes it difficult to progress without a multidisciplinary approach GEOMVAP gathers together experts in Algebraic Symplectic and Arithmetic Geometry to stimulate the interaction between them and to allow the study of each object from different points of view The book aims at established researchers as well as at PhD and postdoctoral students who want to learn more about the latest advances in pure and applied Geometry and Topology *Geometry, Topology and Physics* Boris N. Apanasov, Steven B. Bradlow, Waldyr A. Rodrigues, Karen K. Uhlenbeck, 2011-06-24 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications *Superstrings, Geometry, Topology, and C^* -algebras* Robert S. Doran, Greg Friedman, Jonathan Rosenberg, 2010-10-13 This volume contains the proceedings of an NSF CBMS Conference held at Texas Christian University in Fort Worth Texas May 18 22 2009 The papers written especially for this volume by well known mathematicians and mathematical physicists are an outgrowth of the talks presented at the conference Topics examined are highly interdisciplinary and include among many other things recent results on D brane charges in K homology and twisted K homology Yang Mills gauge theory and connections with non commutative geometry Landau Ginzburg models C algebraic non commutative geometry and ties to quantum physics and topology the rational homotopy type of the group of unitary elements in an Azumaya algebra and functoriality properties in the theory of C crossed products and fixed point algebras for proper actions An introduction written by Jonathan Rosenberg provides an instructive overview describing common themes and how the various papers in the volume are interrelated and fit together The rich diversity of papers appearing in the volume demonstrates the current interplay between superstring

theory geometry topology and non commutative geometry The book will be of interest to graduate students mathematicians mathematical physicists and researchers working in these areas

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