

Charles Pugh and Geoffrey J. Leech

Topology — Geometry — Physicists



Topology And Geometry For Physicists Dover S On Mathematics

Taqdir Husain



Topology And Geometry For Physicists Dover S On Mathematics:

Topology and Geometry for Physicists Charles Nash, Siddhartha Sen, 1988-01-04 Applications from condensed matter physics statistical mechanics and elementary particle theory appear in the book An obvious omission here is general relativity we apologize for this We originally intended to discuss general relativity However both the need to keep the size of the book within the reasonable limits and the fact that accounts of the topology and geometry of relativity are already available for example in *The Large Scale Structure of Space Time* by S Hawking and G Ellis made us reluctantly decide to omit this topic

Lectures on Hyperhamiltonian Dynamics and Physical Applications Giuseppe Gaeta, Miguel A. Rodríguez, 2017-07-21 This book provides the mathematical foundations of the theory of hyperhamiltonian dynamics together with a discussion of physical applications In addition some open problems are discussed Hyperhamiltonian mechanics represents a generalization of Hamiltonian mechanics in which the role of the symplectic structure is taken by a hyperkähler one thus there are three Kähler symplectic forms satisfying quaternionic relations This has proved to be of use in the description of physical systems with spin including those which do not admit a Hamiltonian formulation The book is the first monograph on the subject which has previously been treated only in research papers

Boundaries of a Complex World Andrei Ludu, 2022-09-24 The 2nd edition of this book provides novel topics and studies in boundaries of networks and Big Data Systems The central theme of this book is the extent to which the structure of the free dynamical boundaries of a system controls the evolution of the system as a whole Applying three orthogonal types of thinking mathematical constructivist and morphological it illustrates these concepts using applications to selected problems from the social and life sciences as well as economics In a broader context it introduces and reviews some modern mathematical approaches to the science of complex systems Standard modeling approaches based on non linear differential equations dynamic systems graph theory cellular automata stochastic processes or information theory are suitable for studying local problems However they cannot simultaneously take into account all the different facets and phenomena of a complex system and new approaches are required to solve the challenging problem of correlations between phenomena at different levels and hierarchies their self organization and memory evolutive aspects the growth of additional structures and are ultimately required to explain why and how such complex systems can display both robustness and flexibility This graduate level text addresses a broader interdisciplinary audience keeping the mathematical level essentially uniform throughout the book and involving only basic elements from calculus algebra geometry and systems theory

An Introduction to Geometrical Physics Aldrovandi Ruben, Pereira Jose Geraldo, 2016-10-07 This book focuses on the unifying power of the geometrical language in bringing together concepts from many different areas of physics ranging from classical physics to the theories describing the four fundamental interactions of Nature gravitational electromagnetic strong nuclear and weak nuclear The book provides in a single volume a thorough introduction to topology and differential geometry as well as many applications to both mathematical and physical problems

It is aimed as an elementary text and is intended for first year graduate students In addition to the traditional contents of books on special and general relativities this book discusses also some recent advances such as de Sitter invariant special relativity teleparallel gravity and their implications in cosmology for those wishing to reach a higher level of understanding

Manifolds, Tensors and Forms Paul Renteln,2014 Comprehensive treatment of the essentials of modern differential geometry and topology for graduate students in mathematics and the physical sciences Elementary Theory & Application of Numerical Analysis James Edward Miller,David G. Moursund,Charles S. Duris,2011-01-01 This updated introduction to modern numerical analysis is a complete revision of a classic text originally written in Fortran but now featuring the programming language C It focuses on a relatively small number of basic concepts and techniques Many exercises appear throughout the text most with solutions An extensive tutorial explains how to solve problems with C **The Structures of Mathematical Physics** Steven P. Starkovich,2021-07-21 This textbook serves as an introduction to groups rings fields vector and tensor spaces algebras topological spaces differentiable manifolds and Lie groups mathematical structures which are foundational to modern theoretical physics It is aimed primarily at undergraduate students in physics and mathematics with no previous background in these topics Applications to physics such as the metric tensor of special relativity the symplectic structures associated with Hamilton s equations and the Generalized Stokes s Theorem appear at appropriate places in the text Worked examples end of chapter problems many with hints and some with answers and guides to further reading make this an excellent book for self study Upon completing this book the reader will be well prepared to delve more deeply into advanced texts and specialized monographs in theoretical physics or mathematics Classical Double Copy, The: New Connections In Gauge Theory And Gravity Christopher White,2024-04-22 Our current understanding of nature is in terms of matter that is acted on by forces There are four fundamental forces of which three are described by so called gauge theories a type of quantum field theory The fourth force gravity is best described by general relativity and our traditional ways of thinking about gauge theories and gravity look completely different from each other In recent years an exciting new correspondence called the double copy has emerged which suggests that the above theories may be much more closely related than previously thought Inspired by previous work in string theory it originated in the study of how particles interact but has since been generalised to show that many gravitational quantities can be simply obtained by recycling simpler gauge theory results This has significant practical applications such as new calculational tools for astrophysics but is also of conceptual importance in suggesting that our current ways of thinking about fundamental physics are hiding a vast underlying structure This book reviews our current theories of fundamental physics before describing in detail how the double copy was discovered how it can be applied to different types of object in gauge or gravity theory and what its current and future applications are No prior knowledge of quantum field theory or string theory is assumed such that the book will be of interest to a broad audience of physicists and mathematicians **The Problem of Time** Edward Anderson,2017-09-18

This book is a treatise on time and on background independence in physics. It first considers how time is conceived of in each accepted paradigm of physics: Newtonian, special relativity, quantum mechanics (QM) and general relativity (GR). Substantial differences are moreover uncovered between what is meant by time in QM and in GR. These differences jointly source the Problem of Time. Nine interlinked facets which arise upon attempting concurrent treatment of the QM and GR paradigms as is required in particular for a background independent theory of quantum gravity. A sizeable proportion of current quantum gravity programs e.g. geometrodynamical and loop quantum gravity approaches to quantum GR, quantum cosmology, supergravity and M theory are background independent in this sense. This book's foundational topic is thus furthermore of practical relevance in the ongoing development of quantum gravity programs. This book shows moreover that eight of the nine facets of the Problem of Time already occur upon entertaining background independence in classical rather than quantum physics. By this development and interpreting shape theory as modelling background independence, this book further establishes background independence as a field of study. Background independent mechanics as well as minisuperspace, spatially homogeneous models of GR and perturbations thereof are used to illustrate these points. As hitherto formulated, the different facets of the Problem of Time greatly interfere with each other's attempted resolutions. This book explains how none the less a local resolution of the Problem of Time can be arrived at after various reconceptualizations of the facets and reformulations of their mathematical implementation. Self-contained appendices on mathematical methods for basic and foundational quantum gravity are included. Finally, this book outlines how supergravity is refreshingly different from GR as a realization of background independence and what background independence entails at the topological level and beyond.

A Course in Linear Algebra David B. Damiano, John B. Little, 2011-01-01 Suitable for advanced undergraduates and graduate students, this text introduces basic concepts of linear algebra. Each chapter contains an introduction, definitions and propositions in addition to multiple examples, lemmas, theorems, corollaries and proofs. Each chapter features numerous supplemental exercises and solutions to selected problems appear at the end. 1988 edition.

The Functions of Mathematical Physics Harry Hochstadt, 1986-01-01 A modern classic, this clearly written, incisive textbook provides a comprehensive, detailed survey of the functions of mathematical physics, a field of study straddling the somewhat artificial boundary between pure and applied mathematics. In the 18th and 19th centuries, the theorists who devoted themselves to this field, pioneers such as Gauss, Euler, Fourier, Legendre and Bessel, were searching for mathematical solutions to physical problems. Today, although most of the functions have practical applications in areas ranging from the quantum theoretical model of the atom to the vibrating membrane, some such as those related to the theory of discontinuous groups still remain of purely mathematical interest. Chapters One and Two examine orthogonal polynomials with sections on such topics as the recurrence formula, the Christoffel-Darboux formula, the Weierstrass approximation theorem and the application of Hermite polynomials to quantum mechanics. Chapter Three is devoted to the principal properties of the gamma function, including

asymptotic expansions and Mellin Barnes integrals Chapter Four covers hypergeometric functions including a review of linear differential equations with regular singular points and a general method for finding integral representations Chapters Five and Six are concerned with the Legendre functions and their use in the solutions of Laplace's equation in spherical coordinates as well as problems in an n dimension setting Chapter Seven deals with confluent hypergeometric functions and Chapter Eight examines at length the most important of these the Bessel functions Chapter Nine covers Hill's equations including the expansion theorems

Mathematical Tools for Physicists George L. Trigg, 2006-08-21 Mathematical Tools for Physicists is a unique collection of 18 carefully reviewed articles each one written by a renowned expert working in the relevant field The result is beneficial to both advanced students as well as scientists at work the former will appreciate it as a comprehensive introduction while the latter will use it as a ready reference The contributions range from fundamental methods right up to the latest applications including Algebraic analytic geometric methods Symmetries and conservation laws Mathematical modeling Quantum computation The emphasis throughout is ensuring quick access to the information sought and each article features an abstract a detailed table of contents continuous cross referencing references to the most relevant publications in the field and suggestions for further reading both introductory as well as highly specialized In addition a comprehensive index provides easy access to the vast number of key words extending beyond the range of the headlines

Visual Differential Geometry and Forms Tristan Needham, 2021-07-13 An inviting intuitive and visual exploration of differential geometry and forms Visual Differential Geometry and Forms fulfills two principal goals In the first four acts Tristan Needham puts the geometry back into differential geometry Using 235 hand drawn diagrams Needham deploys Newton's geometrical methods to provide geometrical explanations of the classical results In the fifth act he offers the first undergraduate introduction to differential forms that treats advanced topics in an intuitive and geometrical manner Unique features of the first four acts include four distinct geometrical proofs of the fundamentally important Global Gauss Bonnet theorem providing a stunning link between local geometry and global topology a simple geometrical proof of Gauss's famous Theorema Egregium a complete geometrical treatment of the Riemann curvature tensor of an n manifold and a detailed geometrical treatment of Einstein's field equation describing gravity as curved spacetime General Relativity together with its implications for gravitational waves black holes and cosmology The final act elucidates such topics as the unification of all the integral theorems of vector calculus the elegant reformulation of Maxwell's equations of electromagnetism in terms of 2 forms de Rham cohomology differential geometry via Cartan's method of moving frames and the calculation of the Riemann tensor using curvature 2 forms Six of the seven chapters of Act V can be read completely independently from the rest of the book Requiring only basic calculus and geometry Visual Differential Geometry and Forms provocatively rethinks the way this important area of mathematics should be considered and taught

Artificial Intelligence Robert H. Chen, Chelsea Chen, 2024-09-25 Artificial Intelligence An Introduction to Big Ideas and their Development Second

Edition guides readers through the history and development of artificial intelligence AI from its early mathematical beginnings through to the exciting possibilities of its potential future applications To make this journey as accessible as possible the authors build their narrative around accounts of some of the more popular and well known demonstrations of artificial intelligence including Deep Blue AlphaGo and even Texas Hold em followed by their historical background so that AI can be seen as a natural development of the mathematics and computer science of AI As the book proceeds more technical descriptions are presented at a pace that should be suitable for all levels of readers gradually building a broad and reasonably deep understanding and appreciation for the basic mathematics physics and computer science that is rapidly developing artificial intelligence as it is today Features Only mathematical prerequisite is an elementary knowledge of calculus Accessible to anyone with an interest in AI and its mathematics and computer science Suitable as a supplementary reading for a course in AI or the History of Mathematics and Computer Science in regard to artificial intelligence New to the Second Edition Fully revised and corrected throughout to bring the material up to date Greater technical detail and exploration of basic mathematical concepts while retaining the simplicity of explanation of the first edition Entirely new chapters on large language models LLMs ChatGPT and quantum computing

Topological Methods in Galois

Representation Theory Victor P. Snaith, 2013-12-03 This advanced monograph on Galois representation theory by a renowned algebraist covers abelian and nonabelian cohomology of groups characteristic classes of forms and algebras explicit Brauer induction theory more 1989 edition Introduction to Topological Groups Taqdir Husain, 2018-01-10 Concise treatment covers semitopological groups locally compact groups Harr measure and duality theory and some of its applications The volume concludes with a chapter that introduces Banach algebras 1966 edition

Structure of Space

and the Submicroscopic Deterministic Concept of Physics Volodymyr Krasnoholovets, 2017-07-06 This book Structure of Space and the Submicroscopic Deterministic Concept of Physics completely formalizes fundamental physics by showing that all space which consists of objects and distances arises from the same origin manifold of sets A continuously organized mathematical lattice of topological balls represents the primary substrate named the tessellattice All fundamental particles arise as local fractal deformations of the tessellattice The motion of such particulate balls through the tessellattice causes it to deform neighboring cells which generates a cloud of a new kind of spatial excitations named inertons Thus so called hidden variables introduced in the past by de Broglie Bohm and Vigier have acquired a sense of real quasiparticles of space This theory of space unambiguously answers such challenging issues as what is mass what is charge what is a photon what is the wave psi function what is a neutrino what are the nuclear forces and so on The submicroscopic concept uncovers new peculiar properties of quantum systems especially the dynamics of particles within a section equal to the particle s de Broglie wavelength which are fundamentally impossible for quantum mechanics This concept thoroughly discussed in the book allows one to study complex problems in quantum optics and quantum electrodynamics in detail to disclose an inner world of

particle physics by exposing the structure of quarks and nucleons in real space and to derive gravity as the transfer of local deformations of space by inertons which in turn completely solves the problems of dark matter and dark energy Inertons have revealed themselves in a number of experiments carried out in condensed media plasma nuclear physics and astrophysics which are described in this book together with prospects for future studies in both fundamental and applied physics

CRC Concise Encyclopedia of Mathematics Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d

Fundamentals of the Theory of Plasticity L. M. Kachanov, 2013-09-26 Intended for use by advanced engineering students and professionals this volume focuses on plastic deformation of metals at normal temperatures as applied to strength of machines and structures 1971 edition

Spectral Functions in Mathematics and Physics Klaus Kirsten, 2001-12-13 The literature on the spectral analysis of second order elliptic differential operators contains a great deal of information on the spectral functions for explicitly known spectra The same is not true however for situations where the spectra are not explicitly known Over the last several years the author and his colleagues have developed new

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