

Differential Geometry,
Gauge Theories, and
Gravity (Cambridge
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Göckeler, M.

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Differential Geometry Gauge Theories And Gravity Cambridge Monographs On Mathematical Physics

M. Göckeler, Thomas Schücker



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Geometric Continuum Mechanics and Induced Beam Theories Simon R. Eugster, 2015-03-19 This research monograph discusses novel approaches to geometric continuum mechanics and introduces beams as constraint continuous bodies In the coordinate free and metric independent geometric formulation of continuum mechanics as well as for beam theories the principle of virtual work serves as the fundamental principle of mechanics Based on the perception of analytical mechanics that forces of a mechanical system are defined as dual quantities to the kinematical description the virtual work approach is a systematic way to treat arbitrary mechanical systems Whereas this methodology is very convenient to formulate induced beam theories it is essential in geometric continuum mechanics when the assumptions on the physical space are relaxed and the space is modeled as a smooth manifold The book addresses researcher and graduate students in engineering and mathematics interested in recent developments of a geometric formulation of continuum mechanics and a hierarchical development of induced beam theories

Loops, Knots, Gauge Theories Rodolfo Gambini, Jorge

Pullin, 2023-02-16 This volume provides a self contained introduction to applications of loop representations in particle physics and quantum gravity in order to explore the gauge invariant quantization of Yang Mills theories and gravity First published in 1996 this title has been reissued as an Open Access publication on Cambridge Core

Modern Differential Geometry in Gauge Theories Anastasios Mallios, 2009-10-22 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 usually absent from standard physical treatments Author's mastery of the subject and the rigorous treatment of this text make it invaluable

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Noether Symmetries in Theories of Gravity Francesco Bajardi, Salvatore Capozziello, 2022-11-24 This volume summarizes the many alternatives and extensions to Einstein's General Theory of Relativity and shows how symmetry principles can be applied to identify physically viable models The first part of the book establishes the foundations of classical field theory providing an introduction to symmetry groups and the Noether theorems A quick overview of general relativity is provided including discussion of its successes and shortcomings then several theories of gravity are presented and their main features are

summarized In the second part the Noether Symmetry Approach is applied to theories of gravity to identify those which contain symmetries In the third part of the book these selected models are tested through comparison with the latest experiments and observations This constrains the free parameters in the selected models to fit the current data demonstrating a useful approach that will allow researchers to construct and constrain modified gravity models for further applications

Rotating Relativistic Stars John L. Friedman, Nikolaos Stergioulas, 2013-02-11 The masses of neutron stars are limited by an instability to gravitational collapse and an instability driven by gravitational waves limits their spin Their oscillations are relevant to x ray observations of accreting binaries and to gravitational wave observations of neutron stars formed during the coalescence of double neutron star systems This volume includes more than forty years of research to provide graduate students and researchers in astrophysics gravitational physics and astronomy with the first self contained treatment of the structure stability and oscillations of rotating neutron stars This monograph treats the equations of stellar equilibrium key approximations including slow rotation and perturbations of spherical and rotating stars stability theory and its applications from convective stability to the r mode instability and numerical methods for computing equilibrium configurations and the nonlinear evolution of their oscillations The presentation of fundamental equations results and applications is accessible to readers who do not need the detailed derivations

Informatics and Machine Learning Stephen Winters-Hilt, 2022-01-06 Informatics and Machine Learning Discover a thorough exploration of how to use computational algorithmic statistical and informatics methods to analyze digital data Informatics and Machine Learning From Martingales to Metaheuristics delivers an interdisciplinary presentation on how analyze any data captured in digital form The book describes how readers can conduct analyses of text general sequential data experimental observations over time stock market and econometric histories or symbolic data like genomes It contains large amounts of sample code to demonstrate the concepts contained within and assist with various levels of project work The book offers a complete presentation of the mathematical underpinnings of a wide variety of forms of data analysis and provides extensive examples of programming implementations It is based on two decades worth of the distinguished author s teaching and industry experience A thorough introduction to probabilistic reasoning and bioinformatics including Python shell scripting to obtain data counts frequencies probabilities and anomalous statistics or use with Bayes rule An exploration of information entropy and statistical measures including Shannon entropy relative entropy maximum entropy maxent and mutual information A practical discussion of ad hoc ab initio and bootstrap signal acquisition methods with examples from genome analytics and signal analytics Perfect for undergraduate and graduate students in machine learning and data analytics programs Informatics and Machine Learning From Martingales to Metaheuristics will also earn a place in the libraries of mathematicians engineers computer scientists and life scientists with an interest in those subjects

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