

Loops, Knots, Gauge Theories and Quantum Gravity

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JONNE POLLEN

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Gravity and Strings Tomás Ortín, 2015-03-26 Self contained and comprehensive this definitive new edition of Gravity and Strings is a unique resource for graduate students and researchers in theoretical physics From basic differential geometry through to the construction and study of black hole and black brane solutions in quantum gravity via all the intermediate stages this book provides a complete overview of the intersection of gravity supergravity and superstrings Now fully revised this second edition covers an extensive array of topics including new material on non linear electric magnetic duality the electric tensor formalism matter coupled supergravity supersymmetric solutions the geometries of scalar manifolds appearing in 4 and 5 dimensional supergravities and much more Covering reviews of important solutions and numerous solution generating techniques and accompanied by an exhaustive index and bibliography this is an exceptional reference work

Mexican Mathematicians in the World Fernando Galaz-García, Cecilia González-Tokman, Juan Carlos Pardo Millán, 2021-11-22 Articles in this volume are based on presentations given at the IV Meeting of Mexican Mathematicians Abroad IV Reunión de Matemáticos Mexicanos en el Mundo held from June 10-15 2018 at Casa Matemática Oaxaca CMO Mexico This meeting was the fourth in a series of ongoing biannual meetings bringing together Mexican mathematicians working abroad with their peers in Mexico This book features surveys and research articles from five broad research areas algebra analysis combinatorics geometry and topology Their topics range from general relativity and mathematical physics to interactions between logic and ergodic theory Several articles provide a panoramic view of the fields and problems on which the authors are currently working on showcasing diverse research lines complementary to those currently pursued in Mexico The research oriented manuscripts provide either alternative approaches to well known problems or new advances in active research fields

Gravitational N-Body Simulations Sverre J. Aarseth, Sverre Johannes Aarseth, 2003-10-23 This book discusses in detail all the relevant numerical methods for the classical N body problem It demonstrates how to develop clear and elegant algorithms for models of gravitational systems and explains the fundamental mathematical tools needed to describe the dynamics of a large number of mutually attractive particles Particular attention is given to the techniques needed to model astrophysical phenomena such as close encounters and the dynamics of black hole binaries The author reviews relevant work in the field and covers applications to the problems of planetary formation and star cluster dynamics both of Pleiades type and globular clusters Self contained and pedagogical this book is suitable for graduate students and researchers in theoretical physics astronomy and cosmology

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Relativity: Space-time Structure - Einstein And Beyond Abhay Ashtekar, 2005-11-22 Thanks to Einstein's relativity theories our notions of space and time underwent profound revisions about a 100 years ago. The resulting interplay between geometry and physics has dominated all of fundamental physics since then. This volume contains contributions from leading researchers worldwide who have thought deeply about the nature and consequences of this interplay. The articles take a long range view of the subject and distill the most important advances in broad terms making them easily accessible to non specialists. The first part is devoted to a summary of how relativity theories were born. J. Stachel. The second part discusses the most dramatic ramifications of general relativity such as black holes. P. Chrusciel and R. Price. space time singularities. H. Nicolai and A. Rendall. gravitational waves. P. Laguna and P. Saulson. the large scale structure of the cosmos. T. Padmanabhan. experimental status of this theory. C. Will. as well as its practical application to the GPS system. N. Ashby. The last part looks beyond Einstein and provides glimpses into what is in store for us in the 21st century. Contributions here include summaries of radical changes in the notions of space and time that are emerging from quantum field theory in curved space times. Ford. string theory. T. Banks. loop quantum gravity. A. Ashtekar. quantum cosmology. M. Bojowald. discrete approaches. Dowker. Gambini and Pullin. and twistor theory. R. Penrose. Gravitational Solitons V. Belinski, E. Verdaguer, 2001-07-19 This 2001 book gives a self contained exposition of the theory of gravitational solitons and provides a comprehensive review of exact soliton solutions to Einstein's equations. The text begins with a detailed discussion of the extension of the Inverse Scattering Method to the theory of gravitation starting with pure gravity and then extending it to the coupling of gravity with the electromagnetic field. There follows a systematic review of the gravitational soliton solutions based on their symmetries. These solutions include some of the most interesting in gravitational physics such as those describing inhomogeneous cosmological models. cylindrical waves. the collision of exact gravity waves and the Schwarzschild and Kerr black holes. A valuable reference for researchers and graduate students in the fields of general relativity. string theory and cosmology. this book will also be of interest to mathematical physicists in general. *Applications of Knot Theory* American Mathematical Society. Short Course, 2009 Over the past 20-30 years knot theory has rekindled its historic ties with biology. chemistry and physics as a means of creating more sophisticated descriptions of the entanglements and properties of natural phenomena from strings to organic compounds to DNA. This volume is based on the 2008 AMS Short Course *Applications of Knot Theory*. The aim of the Short Course and this volume while not covering all aspects of applied knot theory is to provide the reader with a mathematical appetizer in order to stimulate the mathematical appetite for further study of this exciting field. No prior knowledge of topology. biology. chemistry or physics is assumed. In particular the first three chapters of this volume introduce the reader to knot theory by Colin Adams. topological chirality and molecular symmetry by Erica Flapan. and DNA topology by Dorothy Buck. The second half of this volume is focused on three particular applications of knot theory. Louis Kauffman discusses applications of knot theory to physics. Nadrian Seeman discusses how topology is used in DNA nanotechnology and

Jonathan Simon discusses the statistical and energetic properties of knots and their relation to molecular biology The Legacy of Albert Einstein Spenta R. Wadia, 2007 This indispensable volume contains a compendium of articles covering a vast range of topics in physics which were begun or influenced by the works of Albert Einstein special relativity quantum theory statistical physics condensed matter physics general relativity geometry cosmology and unified field theory An essay on the societal role of Einstein is included These articles written by some of the renowned experts offer an insider's view of the exciting world of fundamental science **Supersymmetric Solitons** M. Shifman, A. Yung, 2023-07-27 This book summarizes major advances in critical solitons in supersymmetric theories and their implications for understanding basic dynamical regularities of non supersymmetric theories First published in 2009 this title has been reissued as an Open Access publication on Cambridge Core

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