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DECKER CARTER

Popular Science World Scientific
"This book grew out of a set of lecture notes on gravitational

Chern–Simons (CS) theories developed over the past decade for several schools and different audiences including graduate students and researchers. CS theories are gauge-invariant theories that can include gravity consistently. They are only defined in odd dimensions and represent a very special class of theories in the Lovelock family. Lovelock gravitation theories are the natural extensions of General Relativity for dimensions greater than four that yield second-order field equations for the metric. These theories also admit local supersymmetric extensions where supersymmetry is an off-shell symmetry of the action, as in a standard gauge theory. Apart from the arguments of mathematical elegance and beauty, the gravitational CS actions are exceptionally endowed with physical attributes that suggest the viability of a quantum interpretation. CS theories are gauge-invariant, scale-invariant and background independent; they have no dimensional coupling constants. All constants in the Lagrangian are fixed rational coefficients that cannot be adjusted without destroying gauge invariance. This exceptional status of CS systems makes them classically interesting to study, and quantum

mechanically intriguing and promising."--Provided by publisher.

Applied Science & Technology Index

World Scientific

General physics, atomic physics, molecular physics, and solid state physics.

Gravitation Academic Press

This thesis focuses on the recent firewall controversy surrounding evaporating black holes, and shows that in the best understood example concerning electrically charged black holes with a flat event horizon in anti-de Sitter (AdS) spacetime, the firewall does not arise. The firewall, which surrounds a sufficiently old black hole, threatens to develop into a huge crisis since it could occur even when spacetime curvature is small, which contradicts general relativity. However, the end state for asymptotically flat black holes is ill-understood since their curvature becomes unbounded. This issue is avoided by working with flat charged black holes in AdS. The presence of electrical charge is crucial since black holes inevitably pick up charges throughout their long lifetime. These black holes always evolve toward extremal limit, and are then destroyed by quantum gravitational effects. This happens sooner than the time required to decode Hawking radiation so that the firewall never sets in, as conjectured by Harlow and Hayden. Motivated by the

information loss paradox, the author also investigates the possibility that “monster” configurations might exist, with an arbitrarily large interior bounded by a finite surface area. Investigating such an object in AdS shows that in the best understood case, such an object -- much like a firewall -- cannot exist.

Ghost in the Shell

World Scientific

We could be on the threshold of a scientific revolution. Quantum mechanics is based on unique, finite, and discrete events. General relativity assumes a continuous, curved space-time. Reconciling the two remains the most fundamental unsolved scientific problem left over from the last century. The papers of H Pierre Noyes collected in this volume reflect one attempt to achieve that unification by replacing the continuum with the bit-string events of computer science. Three principles are used: physics can determine whether two quantities are the same or different; measurement can tell something from nothing; this structure (modeled by binary addition and multiplication) can leave a historical record consisting of a growing universe of bit-strings. This book is specifically addressed to those interested in the foundations of particle physics, relativity, quantum mechanics, physical cosmology and the

philosophy of science. Contents: Non-Locality in Particle Physics; On the Physical Interpretation and the Mathematical Structure of the Combinatorial Hierarchy (with T Bastin, J Amson & C W Kilmister); On the Construction of Relativistic Quantum Theory: A Progress Report; Foundations of a Discrete Physics (with D McGoveran); Comment on OC Statistical Mechanical Origin of the Entropy of a Rotating Charged Black HoleOCO Anti-Gravity: The Key to 21st Century Physics; Crossing Symmetry is Incompatible with General Relativity; Operationalism Revisited: Measurement Accuracy, Scale Invariance and the Combinatorial Hierarchy; Discrete Physics and the Derivation of Electromagnetism from the Formalism of Quantum Mechanics (with L H Kauffman); Are Partons Confined Tachyons?; A Short Introduction to Bit-String Physics; Process, System, Causality and Quantum Mechanics: A Psychoanalysis of Animal Faith (with T Etter); and other papers. Readership: Researchers interested in the foundations of particle physics, relativity, quantum mechanics, physical cosmology and the philosophy of science."

Encyclopedia of Distances Springer

Explored here is how gravity, electricity, and magnetism manifest from a unified field around us; why artificial gravity is

possible; secrets of UFO propulsion; free energy; Nikola Tesla and anti gravity airships of the 20s and 30s; flying saucers as superconducting whirls of plasma; anti-mass generators; vortex propulsion; government cover-ups; gravitational pulse drive; spacecraft; and more.

Physics Letters World Scientific

Describes random geometry and applications to strings, quantum gravity, topological field theory and membrane physics.

Landing Craft, Infantry and Fire Support Cambridge University Press

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Physical Fitness/sports Medicine Bloomsbury Publishing

With a focus on modified gravity this book presents a review of the recent developments in the fields of gravity and cosmology, presenting the state of the art, high-lighting the open problems, and outlining the directions of future research. General Relativity and the ΛCDM framework are currently the standard lore and constitute the concordance paradigm of cosmology. Nevertheless, long-standing open

theoretical issues, as well as possible new observational ones arising from the explosive development of cosmology in the last two decades, offer the motivation and lead a large amount of research to be devoted in constructing various extensions and modifications. In this review all extended theories and scenarios are first examined under the light of theoretical consistency, and are then applied in various geometrical backgrounds, such as the cosmological and the spherical symmetric ones. Their predictions at both the background and perturbation levels, and concerning cosmology at early, intermediate and late times, are then confronted with the huge amount of observational data that astrophysics and cosmology has been able to offer in the last two decades. Theories, scenarios and models that successfully and efficiently pass the above steps are classified as viable and are candidates for the description of Nature, allowing readers to get a clear overview of the state of the art and where the field of modified gravity is likely to go. This work was performed in the framework of the COST European Action "Cosmology and Astrophysics Network for Theoretical Advances and Training Actions" - CANTATA.

How Antigravity Built the Pyramids R. R. Bowker

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our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Solid State Physics Springer

Consists of citations selected from those contained in the National Library of Medicine's Medical Literature Analysis and Retrieval System.

Black Holes and the Structure of the Universe Springer

Playstation 2

Modifications of Einstein's Theory of Gravity at Large Distances Springer Nature

In the last few years modified gravity theories have been proposed as extensions of Einstein's theory of gravity. Their main motivation is to explain the latest cosmological and astrophysical data on dark energy and dark matter. The study of general relativity at small scales has already produced important results (cf e.g. LNP 863 Quantum Gravity and Quantum Cosmology) while its study at large scales is challenging because recent and upcoming observational results will provide important information on the validity of these modified theories. In this volume, various aspects of modified gravity at large scales will be discussed: high-curvature gravity theories; general scalar-tensor theories; Galileon theories and

their cosmological applications; F(R) gravity theories; massive, new massive and topologically massive gravity; Chern-Simons modifications of general relativity (including holographic variants) and higher-spin gravity theories, to name but a few of the most important recent developments. Edited and authored by leading researchers in the field and cast into the form of a multi-author textbook at postgraduate level, this volume will be of benefit to all postgraduate students and newcomers from neighboring disciplines wishing to find a comprehensive guide for their future research.

Chern-Simons (super) Gravity Lulu.com

This monograph aims to provide a unified, geometrical foundation of gauge theories of elementary particle physics. The underlying geometrical structure is unfolded in a coordinate-free manner via the modern mathematical notions of fibre bundles and exterior forms. Topics such as the dynamics of Yang-Mills theories, instanton solutions and topological invariants are included. By transferring these concepts to local space-time symmetries, generalizations of Einstein's theory of gravity arise in a Riemann-Cartan space with curvature and torsion. It provides the framework in which the (broken) Poincaré gauge theory, the Rainich geometrization

of the Einstein-Maxwell system, and higher-dimensional, non-abelian Kaluza-Klein theories are developed. Since the discovery of the Higgs boson, concepts of spontaneous symmetry breaking in gravity have come again into focus, and, in this revised edition, these will be exposed in geometric terms. Quantizing gravity remains an open issue: formulating it as a de Sitter type gauge theory in the spirit of Yang-Mills, some new progress in its topological form is presented. After symmetry breaking, Einstein’s standard general relativity with cosmological constant emerges as a classical background. The geometrical structure of BRST quantization with non-propagating topological ghosts is developed in some detail.

The American Dictionary and Cyclopedia Adventures Unlimited Press

The Marcel Grossmann Meetings are three-yearly forums that meet to discuss recent advances in gravitation, general relativity and relativistic field theories, emphasizing their mathematical foundations, physical predictions and experimental tests. These meetings aim to facilitate the exchange of ideas among scientists, to deepen our understanding of space-time structures, and to review the status of ongoing experiments and observations testing Einstein's theory of

gravitation either from ground or space-based experiments. Since the first meeting in 1975 in Trieste, Italy, which was established by Remo Ruffini and Abdus Salam, the range of topics presented at these meetings has gradually widened to accommodate issues of major scientific interest, and attendance has grown to attract more than 900 participants from over 80 countries.This proceedings volume of the eleventh meeting in the series, held in Berlin in 2006, highlights and records the developments and applications of Einstein's theory in diverse areas ranging from fundamental field theories to particle physics, astrophysics and cosmology, made possible by unprecedented technological developments in experimental and observational techniques from space, ground and underground observatories. It provides a broad sampling of the current work in the field, especially relativistic astrophysics, including many reviews by leading figures in the research community.

Popular Science

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Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will

help make it better. **Index of Specifications and Standards** Red Wheel/Weiser Distance metrics and distances have become an essential tool in many areas of pure and applied Mathematics, and this encyclopedia is the first one to treat the subject in full. The book appears just as research intensifies into metric spaces and especially, distance design for applications. These distances are particularly crucial, for example, in computational biology, image analysis, speech recognition, and information retrieval. Here, an assessment of the practical questions arising during selection of a "good'' distance function has been left aside in favor of a comprehensive listing of the main available distances, a useful tool for the distance design community. This reader-friendly reference offers both independent introductions and definitions, while at the same time making cross-referencing easy through hyperlink-like boldfaced references to original definitions. This high-quality publication is a mix of reference resource and coffee-table book. Frontier Zone; The Role-playing Game of the Future 2nd Edition Springer Science & Business Media Discover the Lost Secrets of the Ancients and the Time When Stones Floated High over Egypt Throughout history, folklore, and mystery, tales have circulated of massive

stones being moved through the air effortlessly by sound. Bizarre? Well, yes, it is. That doesn't take away the fact that sound was, and still remains, the key to the construction of the pyramids of Egypt, Stonehenge, the stone figures of Easter Island, and the massive stones at Baalbek, Lebanon. Were they the work of ancient humans or of equally ancient extraterrestrials? How Antigravity Built the Pyramids delves into specific stories and theories: A 9th-century story of a mysterious papyrus with the power to move large stones at the Giza Necropolis The Mayan story of the construction of the Pyramid of the Magician said to be overseen by a small humanoid who could whistle large stones into place Native American stories of ancient priests being able to make stones light to move easily Author Nick Redfern argues it was not literally music and whistling that somehow raised large stones, but both have one thing in common: sound. Acoustics. Almost certainly, acoustic levitation was at the heart of these incredible feats. The truth of the science behind acoustic levitation was lost and forgotten for ages with little more left than fanciful tales of music, whistles, a curious papyrus, and strange metal rods that could achieve incredible feats in the air. Today, we are finally starting to get a grasp on this incredible technology,

a technology that may have been the work of ancient humans, aliens from faraway worlds—or, perhaps, a combination of the two.

Index of Patents Issued from the United States Patent Office Cambridge University Press

Described by one soldier as “a metal box designed by a sadist to move soldiers across the water,” the Landing Craft, Infantry was a large beaching craft intended to deliver an infantry company to a hostile shore, once the beachhead was secured. The LCI and its vehicle-delivery counterpart, the Landing Ship, Medium were widely used by the allies during World War II. Later, the hulls of these ships were used as the basis for a fire support ship. While the landing ships were phased out after the Korean War, some fire support craft remained in use throughout the Vietnam War. This book tells the developmental and operational history of this important tool of American amphibious military strategy that spanned three wars.

Official Gazette of the United States Patent Office Lulu.com

Solid State Physics, Volume 69, provides the latest information on the branch of physics that is primarily devoted to the study of matter in its solid phase, especially at the atomic level. This prestigious serial presents timely and state-of-the-art reviews

pertaining to all aspects of solid state physics. - Contains contributions from leading authorities in the study of solid state physics, especially at the atomic level - Informs and updates on all the latest developments in the field - Presents timely and state-of-the-art reviews pertaining to all aspects of solid state physics

Eleventh Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Gravitation And Relativistic Field Theories (In 3 Volumes) - Proceedings Of The Mg11 Meeting On General Relativity

Springer Nature

Dead Stars is a science fiction horror role-playing game powered by the alternate d20 Universal Decay rules system. Pick a race - from the ever-familiar humans to the amorphous gorbrasch or sleazy helizara - strap on some personal armor and pick up a sliver rifle or get a cerebral computer implant and grab your toolkit. Or both. Then get together with your friends to face a universe of dangers, wonders, opportunities, and quite possibly a messy death. This book contains everything you will need to play or run a game in Dead Stars as well as rules for using the Universal Decay system in alternate genres, incorporating everything from swords and sorcery to vehicle energy weapons, personal armor, nanotechnology

and starships.