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Mass and Motion in General Relativity - Luc Blanchet 2011-01-19
From the infinitesimal scale of particle physics to the cosmic scale of the universe, research is concerned with the nature of mass. While there have been spectacular advances in physics during the past century, mass still remains a mysterious entity at the forefront of current research. Our current perspective on gravitation has arisen over millennia, through the contemplation of falling apples, lift thought experiments and notions of stars spiraling into black holes. In this volume, the world's leading scientists offer a multifaceted approach to mass by giving a concise and introductory presentation based on insights from their respective fields of research on gravity. The main theme is mass and its motion within general relativity and other theories of gravity, particularly for compact bodies. Within this framework, all articles are tied together coherently, covering post-Newtonian and related methods as well as the self-force approach to the analysis of motion in curved space-time, closing with an overview of the historical development and a snapshot on the actual state of the art. All contributions reflect the fundamental role of mass in physics, from issues related to Newton's laws, to the effect of self-force and radiation reaction within theories of gravitation, to the role of the Higgs boson in modern physics. High-precision measurements are described in detail, modified theories of gravity reproducing experimental data are investigated as alternatives to dark matter, and the fundamental problem of reconciling any theory of gravity with the physics of quantum fields is addressed. Auxiliary chapters set the framework for theoretical contributions within the broader context of experimental physics. The book is based upon the lectures of the CNRS School on Mass held in Orléans, France, in June 2008. All contributions have been anonymously refereed and, with the cooperation of the authors, revised by the editors to ensure overall consistency.
Rendiconti - Reale Accademia dei Lincei. Classe di scienze fisiche, matematiche e naturali 1922

Guaranteed Student Loans - United States. General Accounting Office 1992

Libri e riviste - 1951

Tourism and Migration - Colin Michael Hall 2002-02-28
This book makes an innovative contribution to understanding the relationships between tourism and migration. It explores the many different forms of tourism-migration relationships, paying attention to both the global processes of change and the contingencies of place and space. The book provides an extensive guide to the relevant literature as well as case studies from a diverse range of countries and discusses the significance of the Caribbean, Chinese, and Vietnamese diasporas.
Journalism Ethics at the Crossroads - Roger Patching 2021-09-30
This book provides journalism students with an easy-to-read yet theoretically rich guide to the dialectics, contradictions, problems, and promises encapsulated in the term 'journalism ethics'. Offering an overview of a series of crises that have shaken global journalism to its foundations in the last decade, including the coronavirus pandemic, the Black Lives Matter movement, and the 2020 US presidential election, the book explores the structural and ethical problems that shape the journalism industry today. The authors discuss the three principle existential crises that continue to plague the news industry: a failing business model, technological disruption, and growing public mistrust of journalism. Other topics covered include social media ethics, privacy concerns, chequebook journalism, as well as a new analysis of journalism theory that critiques the well-worn tropes of objectivity, the Fourth Estate, freedom of the press, and the marketplace of ideas to develop a sophisticated materialist reimagining of journalism ethics. This is a key text for students of journalism, mass communication, and media ethics,

as well as for academics, researchers, and communications professionals interested in contemporary journalism ethics.

Class and Society - Kurt Bernd Mayer 1969

Ciencia y Practica de la Iridologia - Bernard Jensen 1952

Relativity on Curved Manifolds - F. de Felice 1992-03-27

General relativity is now essential to the understanding of modern physics, but the power of the theory cannot be exploited fully without a detailed knowledge of its mathematical structure. This book aims to implement this structure, and then to develop those applications that have been central to the growth of the theory.

General System Theory - Ludwig von Bertalanffy 2015

The classic book on a major modern theory

Relativity - Albert Einstein 1920

The Geometric Topology of 3-manifolds - R. H. Bing 1983-12-31

Suitable for students and researchers in topology. this work provides the reader with an understanding of the physical properties of Euclidean 3-space - the space in which we presume we live.

To Save the Phenomena - Pierre Duhem 2015-10-01

Duhem's 1908 essay questions the relation between physical theory and metaphysics and, more specifically, between astronomy and physics—an issue still of importance today. He critiques the answers given by Greek thought, Arabic science, medieval Christian scholasticism, and, finally, the astronomers of the Renaissance.

The Politics of Cancer - Samuel S. Epstein 1979

Electromagnetic Theory - Oliver Heaviside 1893

Cornelius Lanczos, Collected Published Papers with Commentaries - Cornelius Lanczos 1998

Physics on Manifolds - M. Flato 2012-12-06

This volume contains the proceedings of the Colloquium "Analysis, Manifolds and Physics" organized in honour of Yvonne Choquet-Bruhat by her friends, collaborators and former students, on June 3, 4 and 5, 1992 in Paris. Its title accurately reflects the domains to which Yvonne Choquet-Bruhat has made essential contributions. Since the rise of General Relativity, the geometry of Manifolds has become a non-trivial part of space-time physics. At the same time, Functional Analysis has been of enormous importance in Quantum Mechanics, and Quantum Field Theory. Its role becomes decisive when one considers the global behaviour of solutions of differential systems on manifolds. In this sense, General Relativity is an exceptional theory in which the solutions of a highly non-linear system of partial differential equations define by themselves the very manifold on which they are supposed to exist. This is why a solution of Einstein's equations cannot be physically interpreted before its global behaviour is known, taking into account the entire hypothetical underlying manifold. In her youth, Yvonne Choquet-Bruhat contributed in a spectacular way to this domain stretching between physics and mathematics, when she gave the proof of the existence of solutions to Einstein's equations on differential manifolds of a quite general type. The methods she created have been worked out by the French school of mathematics, principally by Jean Leray. Her first proof of the local existence and uniqueness of solutions of Einstein's equations inspired Jean Leray's theory of general hyperbolic systems.

Elements of board governance in banking and financial companies - Federico Arcelli

This book represents a collection of articles and papers by selected participants to the first Banking Board Academy, seminar jointly organized by Università G. Marconi and Oliver Wyman SPP. Today's

environment puts unprecedented demands on board members in financial services firms and beyond. Geopolitical, secular and macro-economic trends pose shift towards a new normal. We have initiated The Banking Board Academy to provide an instructive and informative forum to allow private and public sector stakeholders to connect and discuss how this changing order impacts their role and position within the bank.

Atoms in the Family - Laura Fermi 2014-10-24

In this absorbing account of life with the great atomic scientist Enrico Fermi, Laura Fermi tells the story of their emigration to the United States in the 1930s—part of the widespread movement of scientists from Europe to the New World that was so important to the development of the first atomic bomb. Combining intellectual biography and social history, Laura Fermi traces her husband's career from his childhood, when he taught himself physics, through his rise in the Italian university system concurrent with the rise of fascism, to his receipt of the Nobel Prize, which offered a perfect opportunity to flee the country without arousing official suspicion, and his odyssey to the United States.

Dreams, Illusion, and Other Realities - Wendy Doniger O'Flaherty 2015-05-14

"Wendy Doniger O'Flaherty . . . weaves a brilliant analysis of the complex role of dreams and dreaming in Indian religion, philosophy, literature, and art. . . . In her creative hands, enchanting Indian myths and stories illuminate and are illuminated by authors as different as Aeschylus, Plato, Freud, Jung, Kurt Gödel, Thomas Kuhn, Borges, Picasso, Sir Ernst Gombrich, and many others. This richly suggestive book challenges many of our fundamental assumptions about ourselves and our world."—Mark C. Taylor, New York Times Book Review "Dazzling analysis. . . . The book is firm and convincing once you appreciate its central point, which is that in traditional Hindu thought the dream isn't an accident or byway of experience, but rather the locus of epistemology. In its willful confusion of categories, its teasing readiness to blur the line between the imagined and the real, the dream actually embodies the whole problem of knowledge. . . . [O'Flaherty] wants to make your mental flesh creep, and she succeeds."—Mark Caldwell, Village Voice

Atom and Archetype - C. G. Jung 2014-07-21

In 1932, world-renowned physicist Wolfgang Pauli had already done the work that would win him the 1945 Nobel Prize. He was also suffering after a series of troubling personal events. He was drinking heavily, quarrelling frequently, and experiencing powerful, disturbing dreams. Pauli turned to C. G. Jung for help, forging an extraordinary intellectual conjunction not just between a physicist and a psychologist but between physics and psychology. As their acquaintance developed, Jung and Pauli discussed the nature of dreams and their relation to reality, finding surprising common ground between depth psychology and quantum physics and profoundly influencing each other's work. This portrait of an incredible friendship will fascinate readers interested in psychology, science, creativity, and genius.

Renewing U.S. Mathematics - National Research Council 1990-02-01

As requested by the National Science Foundation (NSF) and the Interagency Committee for Extramural Mathematics Programs (ICEMAP), this report updates the 1984 Report known as the "David Report." Specifically, the charge directed the committee to (1) update that report, describing the infrastructure and support for U.S. mathematical sciences research; (2) assess trends and progress over the intervening five years against the recommendations of the 1984 Report; (3) briefly assess the field scientifically and identify significant opportunities for research, including cross-disciplinary collaboration; and (4) make appropriate recommendations designed to ensure that U.S. mathematical sciences research will meet national needs in coming years. Of the several components of the mathematical sciences community requiring action, its wellspring--university research departments--is the primary focus of this report. The progress and promise of research--described in the 1984 Report relative to theoretical development, new applications, and the refining and deepening of old applications--have if anything increased since 1984, making mathematics research ever more valuable to other sciences and technology. Although some progress has been made since 1984 in the support for mathematical sciences research, the goals set in the 1984 Report have not been achieved. Practically all of the increase in funding has gone into building the infrastructure, which had deteriorated badly by 1984. While graduate and postdoctoral research, computer facilities, and new institutes have benefited from increased resources, some of these areas are still undersupported by the standards of other sciences. And in the area of research support for individual investigators, almost no progress has been made. A critical shortage of qualified mathematical sciences

researchers still looms, held at bay for the moment by a large influx of foreign researchers, an uncertain solution in the longer term. While government has responded substantially to the 1984 Report's recommendations, particularly in the support of infrastructure, the universities generally have not, so that the academic foundations of the mathematical sciences research enterprise are as shaky now as in 1984. The greatest progress has been made in the mathematics sciences community, whose members have shown a growing awareness of the problems confronting their discipline and increased interest in dealing with the problems, particularly in regard to communication with the public and government agencies and involvement in education. (AA)

Pandex Current Index to Scientific and Technical Literature - 1969

Quantum Physics - John S. Townsend 2010

This brilliantly innovative textbook is intended as a first introduction to quantum mechanics and its applications

What We Owe Children - Caleb Gattegno 2010

How do children learn? How are they taught? These are two fundamental questions in education. Caleb Gattegno provides a direct and lucid analysis, and concludes that much current teaching, far from feeding and developing the learning process, actually stifles it. Memory, for instance, the weakest of the mental powers available for intelligent use, is almost the only faculty to be exploited in the educational system, and holds little value in preparing a student for the future. Gattegno's answer is to show how learning and teaching can properly work together, what schools should achieve, and what parents have a right to expect.

Combinatorial techniques - Sharad S. Sane 2013-01-15

This is a basic text on combinatorics that deals with all the three aspects of the discipline: tricks, techniques and theory, and attempts to blend them. The book has several distinctive features. Probability and random variables with their interconnections to permutations are discussed. The theme of parity has been specially included and it covers applications ranging from solving the Nim game to the quadratic reciprocity law. Chapters related to geometry include triangulations and Sperner's theorem, classification of regular polytopes, tilings and an introduction to the Euclidean Ramsey theory. Material on group actions covers Sylow theory, automorphism groups and a classification of finite subgroups of orthogonal groups. All chapters have a large number of exercises with varying degrees of difficulty, ranging from material suitable for Mathematical Olympiads to research.

The Routledge Companion to Semiotics and Linguistics - Paul Cobley 2005-11-30

The Routledge Companion to Semiotics and Linguistics opens up the world of semiotics and linguistics for newcomers to the discipline, and provides a useful ready-reference for the more advanced student.

Curvature Cosmology - David F. Crawford 2006

Curvature Cosmology proposes a new cosmological model very different from, and more elegant than, the Big-Bang Theory. Curvature Cosmology is based on two major hypotheses that Hubble redshift is due to an interaction of photons with curved spacetime and that there is a pressure that acts to stabilise expansion and provides a static stable universe. The main focus of this book is to describe these two hypotheses in detail and to examine all relevant cosmological data in the context of this new model of the universe. This model proposes that, though evolution of stars and galaxies is evident, the statistical properties of the universe are the same at all places and at all times. In short, the universe is ageless, has no defined beginning (unlike the Big-Bang model), and carries no evidence of expansion, despite the changeability of its components. Curvature Cosmology is a complex book that calls for a paradigm shift in current cosmology and requires at least basic (if not more complex) knowledge of past and current cosmological models and equations.

Nuclear Italy - Elisabetta Bini 2017

Enciclopedia medica italiana - 1984

Mr Tompkins in Paperback - George Gamow 1993-03-26

Mr Tompkins in paperback comprising: Mr Tompkins in wonderland and Mr Tompkins explores the atom

Ideophones - F. K. Erhard Voeltz 2001-12-19

The present volume represents a selection of papers presented at the International Symposium on Ideophones held in January 1999 in St. Augustin, Germany. They center around the following hypotheses: Ideophones are universal; and constitute a grammatical category in all languages of the world; ideophones and similar words have a special dramaturgic function that differs from all other word classes: they

simulate an event, an emotion, a perception through language. In addition to this unique function, a good number of formal parallels can be observed. The languages dealt with here display strikingly similar patterns of derivational processes involving ideophones. An equally widespread common feature is the introduction of ideophones via a *verbum dicendi* or complementizer. Another observation concerns the sound-symbolic behavior of ideophones. Thus the word formation of ideophones differs from other words in their tendency for iconicity and sound-symbolism. Finally it is made clear that ideophones are part of spoken language — the language register, where gestures are used — rather than written language.

Concepts of Simultaneity - Max Jammer 2006-09-12

Publisher description

Arts & Humanities Citation Index - 1997

Italian Fascism and Developmental Dictatorship - A. James Gregor
2014-07-14

Political scientists generally have been disposed to treat Italian Fascism-- if not generic fascism--as an idiosyncratic episode in the special history of Europe. James Gregor contends, to the contrary, that Italian Fascism has much in common with an inclusive class of developmental revolutionary regimes. Originally published in 1980. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

Disability in Pregnancy and Childbirth E-Book - Stella Frances McKay-Moffat 2007-10-10

This title is directed primarily towards health care professionals outside of the United States. A first in Midwifery publishing! No other book advises midwives on the special needs of mothers with disabilities. Although an increasing number of women with disabilities are having children, the needs of this minority group are not always being effectively met. *Disability in Pregnancy and Childbirth* provides essential practical information to healthcare professionals working with this group. The first book on maternity care for women with additional or alternative needs A practical resource for all working with pregnant women and mothers Reflects the lived experiences of women with disabilities Written by experts in the field Holistic content Looks at professional attitudes as well as the woman's needs

The Collected Papers of Albert Einstein: The early years, 1879-1902 - Albert Einstein 1987-06

Volume 1 presents important new material on the young Einstein. Over half the documents made available here were discovered by the editors, including a significant group of over fifty letters that Einstein exchanged with Mileva Maric, his fellow student and future wife. These letters, together with other previously unpublished documents, provide an entirely new view of Einstein's youth. The documents in the volume also foreshadow the emergence of his extraordinary creative power. In them is manifested his intense commitment to scientific work and his interest in certain themes that proved to be central to his thinking during the next decade. We can follow, for example, the beginnings of his preoccupation with the electrodynamics of moving bodies that was to lead to the development of this special theory of relativity. For the first

time it can be seen how closely he followed such contemporary developments in physics as Planck's work on radiation theory and Drude's work on the electron theory of metals. In addition to all of Einstein's known correspondence and other writings from this period, the volume includes the relevant portions of all third-party letters and other contemporary documents that provide additional information about his secondary schooling at the Aargau Cantonal School; his four years at the Swiss Federal Polytechnical School, or the ETH; and his search for a job after graduation. Included in the volume are those sections of an unpublished biography by Einstein's sister, Maja Winteler-Einstein, which deal with his early years; his extensive notes on a physics course he took at the ETH; and previously unpublished photographs of the young Einstein and his teachers and friends. Documents in Volume 1 portray Einstein's experiences during the two stressful years after his graduation from the ETH in Zurich. Denied a position as an Assistant at the ETH, he lived a hand-to-mouth existence while he looked for a post at other universities; then he attempted to find a secondary-school post, and finally sought a nonacademic job. Tension with his parents over his plans to marry Mileva Maric is evident throughout this period. With the help of a friend, he finally found work at the Swiss Patent Office, the haven where he would spend the next seven years. Freed from his financial worries, he entered on one of the most productive periods of his life, as the next volume, *Writings (1901-1910)*, will document.

National Science Education Standards - National Research Council
1996-01-07

Americans agree that our students urgently need better science education. But what should they be expected to know and be able to do? Can the same expectations be applied across our diverse society? These and other fundamental issues are addressed in *National Science Education Standards*—a landmark development effort that reflects the contributions of thousands of teachers, scientists, science educators, and other experts across the country. The *National Science Education Standards* offer a coherent vision of what it means to be scientifically literate, describing what all students regardless of background or circumstance should understand and be able to do at different grade levels in various science categories. The standards address: The exemplary practice of science teaching that provides students with experiences that enable them to achieve scientific literacy. Criteria for assessing and analyzing students' attainments in science and the learning opportunities that school science programs afford. The nature and design of the school and district science program. The support and resources needed for students to learn science. These standards reflect the principles that learning science is an inquiry-based process, that science in schools should reflect the intellectual traditions of contemporary science, and that all Americans have a role in improving science education. This document will be invaluable to education policymakers, school system administrators, teacher educators, individual teachers, and concerned parents.

Technical english for civil engineering -

soul physiology - riccardo fesce 2008-10-19

neurons and their metaphysical side-effects: from a rigorous discussion of the properties of neurons and brain to the mechanisms by which this grayish jelly generates and explains emotional life, conscience, thought, our sense of beauty and justice, our need for infinity and almost all that we love calling "soul"... the book can be browsed at <http://www.neuroworld.it/soul>