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Le Origini e il problema dell'omo religiosus-Emmanuel Anati 1989

"Scientia", rivista di scienza- 1968

Mathematical Reviews- 1967

The Philosopher's Index- 1981 Vols. for 1969- include a section of abstracts.

Gravitation and Spacetime-Hans C. Ohanian 2013-04-08 This text provides a quantitative introduction to general relativity for advanced undergraduate and graduate students.

Systemics of Emergence-Gianfranco Minati 2006 Within the General Systems Theory (GST) approach, it is possible to focus on "emergent" systemic properties (typically occurring in open, adaptive, anticipatory and chaotic systems), by stressing their specificity and their lack of reducibility into further components. In other words, emergence underlies the processes allowing the establishing of systemic properties. Research on emergence deals with experimental detection, modeling and simulation of processes giving rise to the occurrence of macroscopic (often complex and unexpected) behaviors in complex systems consisting of a large number of components. Actually such a theoretical and experimental effort relies on analytical methods, such as the ones used in modern theories of self-organization, collective-behaviors, phase transitions and artificial life. In sum, the research on emergence analyzes the engine of GST, while GST itself focuses on the general outcomes of this research, thus conceptually inducing an inter- and trans-disciplinary context. SYSTEMICS OF EMERGENCE: Research and Development is a volume devoted to exploring the core theoretical and disciplinary research problems of emergence processes from which systems are established. It focuses on emergence as the key point of any systemic process. This topic is dealt with within different disciplinary approaches, indicated by the organization in sections: 1) Applications; 2) Biology and human care; 3) Cognitive Science; 4) Emergence; 5) General Systems; 6) Learning; 7) Management; 8) Social Systems; 9) Systemic Approach and Information Science; 10) Theoretical issues in Systemics. The Editors and contributing authors have produced this volume to help, encourage and widen the work in this area of General Systems Research.

Italian Mathematics Between the Two World Wars-Angelo Guerraggio 2006-01-20 This book describes Italian mathematics in the period between the two World Wars. It analyzes the development by focusing on both the interior and the external influences. Italian mathematics in that period was shaped by a colorful array of strong personalities who concentrated their efforts on a select number of fields and won international recognition and respect in an incredibly short time. Consequently, Italy was considered a third mathematical power after France and Germany.

Continuous Groups of Transformations-Luther Pfahler Eisenhart 2003-02-20 Intensive study of the theory and geometrical applications of continuous groups of transformations provides extended discussions of tensor analysis, Riemannian geometry and its generalizations, and the applications of the theory of continuous groups to modern physics. Includes 185 exercises. 1933 edition.

Einstein's Unified Field Theory-Marie-Antoinette Tonnelat 1966

European Perspectives on Producers' Liability-Martin Ebers 2009-10-16 A growing number of countries recognise a direct producers' liability for non-conforming goods. The European Commission has considered the introduction of an EU-wide direct producers' liability for a long time. Will there be new responsibilities for producers in the future? This book compiles national reports from 24 European countries on the sale of goods law as well as the consumer's remedies for non-conforming goods and the final seller's right of redress. A comparative report informs about the different models of producers' liability and their impact on the internal market. Beneficial for practitioners working in the field of consumer contract law and sale of goods law.

A History of the Ideas of Theoretical Physics-S. D'Agostino 2012-12-06 This book presents a perspective on the history of theoretical physics over the past two hundreds years. It comprises essays on the history of pre-Maxwellian electrodynamics, of Maxwell's and Hertz's field theories, and of the present century's relativity and quantum physics. A common thread across the essays is the search for and the exploration of themes that influenced significant conceptual changes in the great movement of ideas and experiments which heralded the emergence of theoretical physics (hereafter: TP). The fundamental change involved the recognition of the scientific validity of theoretical physics. In the second half of the nineteenth century, it was not easy for many physicists to understand the nature and scope of theoretical physics and of its adept, the theoretical physicist. A physicist like Ludwig Boltzmann, one of the eminent contributors to the new discipline, confessed in 1895 that, "even the formulation of this concept [of a theoretical physicist] is not entirely without difficulty". Although science had always been divided into theory and experiment, it was only in physics that theoretical work developed into a major research and teaching specialty in its own right. It is true that theoretical physics was mainly a creation of the turn-of-the-century German physics, where it received full institutional recognition, but it is also undeniable that outstanding physicists in other European countries, namely, Ampere, Fourier, and Maxwell, also had an important part in its creation.

From Classical to Modern Algebraic Geometry-Gianfranco Casnati 2017-04-20 This book commemorates the 150th birthday of Corrado Segre, one of the founders of the Italian School of Algebraic Geometry and a crucial figure in the history of Algebraic Geometry. It is the outcome of a conference held in Turin, Italy. One of the book's most unique features is the inclusion of a previously unpublished manuscript by Corrado Segre, together with a scientific commentary. Representing a prelude to Segre's seminal 1894 contribution on the theory of algebraic curves, this manuscript and other important archival sources included in the essays shed new light on the eminent role he played at the international level. Including both survey articles and original research papers, the book is divided into three parts: section one focuses on the implications of Segre's work in a historic light, while section two presents new results in his field, namely Algebraic Geometry. The third part features Segre's unpublished notebook: Sulla Geometria Sugli Enti Algebrici Semplicemente Infiniti (1890-1891). This volume will appeal to scholars in the History of Mathematics, as well as to researchers in the current subfields of Algebraic Geometry. Recent Developments in General Relativity-B. Casciaro 2011-06-28 The 13th Italian Conference on General Relativity and Gravitational Physics was held in Cala Corvino-Monopoli (Bari) from September 21 to September 25, 1998. The Conference, which is held every other year in different Italian locations, has brought together, as in the earlier conferences in this series, those scientists who are interested and actively work in all aspects of general relativity, from both the mathematical and the physical points of view: from classical theories of gravitation to quantum gravity, from relativistic astrophysics and cosmology to experiments in gravitation. About 70 participants came from Departments of Astronomy and Astrophysics, Departments of Mathematics and Departments of Experimental and Theoretical Physics from all over the Country; in addition a few Italian scientists working abroad kindly accepted invitations from the Scientific Committee. The good wishes of the University and of the Politecnico di Bari were conveyed by the director of Dipartimento Interuniversitario di Matematica, Prof. Franco Altomare. These proceedings contain the contributions of the two winners of the SIGRAV prizes, the invited talks presented at the Conference and most of the contributed talks. We thank all of our colleagues, who did their best to prepare their manuscripts. The pleasant atmosphere induced by the beauty of the place was greatly enhanced not only by the participation of so many colleagues, who had lively discussions about science well beyond Conference hours, but also by the feeling of hospitality extended to the participants by the staff of the Cala Corvino Hotel, where the Conference was held.

Physics of Asymmetric Continuum: Extreme and Fracture Processes-Roman Teisseyre 2008-08-07 Our new monograph has been inspired by the former one, Earthquake Source Asymmetry, Structural Media, and Rotation Effects (R. Teisseyre, M. Takeo, and E. Majewski, eds, Springer 2006). Some problems, concerned primarily but not exclusively with the basic theoretical nature, have appeared to us as worthy of further analysis. Thus, in the present monograph we intend to develop new theoretical approaches to the theory of continua that go far beyond the traditional seismological applications. We also try to present the links between the experimental data, the observed rotational seismic waves, and their theoretical evaluation and description. In addition, we consider the basic point motions and deformations, and we intend to find the invariant forms to describe such point motions. We believe that there must exist the basic equations for all point motions and deformations, and we derive such relations within a frame of a continuum theory. Thus, in the considered standard asymmetric theory, we include relations not only for the displacement velocities but also for a spin motion and basic point deformations as well. We include here the axial point formation and twist point deformation represented by the string-string and string-membrane motions. A twist vector is defined here as a vector perpendicular to the string-string plane and representing its magnitude. It comes an important counterpart to spin and a key to the presented theory. We show in the forthcoming chapters that the twist motion describes the oscillations of shear axes.

The Big Bang and Georges Lemaître-A.L. Berger 2012-12-06 ix Fully aware of the work accomplished by Mgr. Lemaitre, His Majesty King Baudouin enhanced this occasion by placing it under His High Patronage. His Holiness the Pope Jean-Paul II accepted to testify his paternal solicitude for the work of the scientists participating in the symposium. The President of the pontifical Academy of Sciences and the Director of the Vatican Observatory transmitted their fervent wishes for the full success of the symposium. Numerous other eminent people graced the ceremony with their patronage. The academic opening, the addresses of which are published by the Revue des Questions Scientifiques de Bruxelles, was presided over by Mgr. E. Massaux, Rector of the Catholic University of Louvain who spoke about Lemaitre, the University professor. Professor Ch. de Duve,

Nobel Prize winner in Medicine, called to mind the role of Lemaitre as President of the Pontifical Academy of Sciences; the Emeritus Professor O. Godart, founder of the Institute, recalled the life and work of Mgr. Lemaitre; Professor A. Deprit, Senior Mathematician at the National Bureau of Standards, spoke about Lemaitre's work in celestial mechanics and his keen interest for computers; Professor J. Peebles, Professor of Physics at Princeton University, summarized the fundamental contributions of Lemaitre to modern cosmology. The attendance of more than three hundred people was enhanced by the presence of Mgr. A. Pedroni, Papal Nuncio, Mr Ph. Maystadt, Minister of Research Policy, Mr E. Knoops, Secretary of State, Mr Y. de Wasseige, Senator, Professor E. The Ontology of Spacetime- 2006-07-10 This book contains selected papers from the First International Conference on the Ontology of Spacetime. Its fourteen chapters address two main questions: first, what is the current status of the substantialism/relationalism debate, and second, what about the prospects of presentism and becoming within present-day physics and its philosophy? The overall tenor of the four chapters of the book's first part is that the prospects of spacetime substantialism are bleak, although different possible positions remain with respect to the ontological status of spacetime. Part II and Part III of the book are devoted to presentism, eternalism, and becoming, from two different perspectives. In the six chapters of Part II it is argued, in different ways, that relativity theory does not have essential consequences for these issues. It certainly is true that the structure of time is different, according to relativity theory, from the one in classical theory. But that does not mean that a decision is forced between presentism and eternalism, or that becoming has proved to be an impossible concept. It may even be asked whether presentism and eternalism really offer different ontological perspectives at all. The writers of the last four chapters, in Part III, disagree. They argue that relativity theory is incompatible with becoming and presentism. Several of them come up with proposals to go beyond relativity, in order to restore the prospects of presentism. · Space and time in present-day physics and philosophy · Introduction from scratch of the debates surrounding time · Broad spectrum of approaches, coherently represented

Science, Worldviews and Education-Michael Matthews 2009-07-14 This book has its origins in a special issue of the journal Science & Education (Volume 18 Numbers 6-7, 2009). The essay by Costas Skordoulis - 'Science and Worldviews in the Marxist Tradition' - did not appear in that special issue due to a mistake in production scheduling. It was published in an earlier issue of the journal (Volume 17 Number 6, 2008), but has been included in this book version of the special issue. As explained in the Introduction, the catalyst for the journal special issue was the essay on 'Science, Worldviews and Education' submitted to the journal by Hugh G. Gauch Jr. This was circulated to the other contributors who were asked to write their own contribution in the light of the arguments and literature contained in the paper. Hugh made brief 'Responses and Clarifications' after the papers were written. However the Tanis Edis article on Islam and my own article on Priestley were processed too late to benefit from Hugh's appraisal. The journal is associated with the International History, Philosophy, and Science Teaching Group which was formed in 1987. The group stages biennial international conferences and occasional regional conferences (details can be found at www.ihpst.org). The group, though the journal, conferences, and its electronic newsletter (at www.ihpst.

Hermeneutics and Science-International Society for Hermeneutics and Science. Conference 1999-09-30

Proceedings of the First Conference of the International Society for Hermeneutics and Science

Einstein's Italian Mathematicians: Ricci, Levi-Civita, and the Birth of General Relativity-Judith R. Goodstein

2018-07-20 In the first decade of the twentieth century as Albert Einstein began formulating a revolutionary theory of gravity, the Italian mathematician Gregorio Ricci was entering the later stages of what appeared to be a productive if not particularly memorable career, devoted largely to what his colleagues regarded as the dogged development of a mathematical language he called the absolute differential calculus. In 1912, the work of these two dedicated scientists would intersect—and physics and mathematics would never be the same. Einstein's Italian Mathematicians chronicles the lives and intellectual contributions of Ricci and his brilliant student Tullio Levi-Civita, including letters, interviews, memoranda, and other personal and professional papers, to tell the remarkable, little-known story of how two Italian academicians, of widely divergent backgrounds and temperaments, came to provide the indispensable mathematical foundation—today known as the tensor calculus—for general relativity.

A Bridge between Conceptual Frameworks-Raffaele Pisano 2016-10-23 This book analyzes scientific problems within the history of physics, engineering, chemistry, astronomy and medicine, correlated with technological applications in the social context. When and how is tension between disciplines explicitly practised? What is the conceptual bridge between science researches and the organization of technological researches in the development of industrial applications? The authors explain various ways in which the sciences allowed advanced modelling on the one hand, and the development of new technological ideas on the other hand. An emphasis on the role played by mechanisms, production methods and instruments bestows a benefit on historical and scientific discourse: theories, institutions, universities, schools for engineers, social implications as well. Scholars from different traditions discuss the emergency style of thinking in methodology and, in theoretical perspective, aim to gather and re-evaluate the current thinking on this subject. It brings together contributions from leading experts in the field, and gives much-needed insight into the subject from a historical point of view. The volume composition makes for absorbing reading for historians, philosophers and scientists.

Continuum Mechanics Through the Twentieth Century-Gerard A Maugin 2013-04-08 This overview of the

development of continuum mechanics throughout the twentieth century is unique and ambitious. Utilizing a historical perspective, it combines an exposition on the technical progress made in the field and a marked interest in the role played by remarkable individuals and scientific schools and institutions on a rapidly evolving social background. It underlines the newly raised technical questions and their answers, and the ongoing reflections on the bases of continuum mechanics associated, or in competition, with other branches of the physical sciences, including thermodynamics. The emphasis is placed on the development of a more realistic modeling of deformable solids and the exploitation of new mathematical tools. The book presents a balanced appraisal of advances made in various parts of the world. The author contributes his technical expertise, personal recollections, and international experience to this general overview, which is very informative albeit concise.

International Handbook of Research in History, Philosophy and Science Teaching-Michael R. Matthews

2014-07-03 This inaugural handbook documents the distinctive research field that utilizes history and philosophy in investigation of theoretical, curricular and pedagogical issues in the teaching of science and mathematics. It is contributed to by 130 researchers from 30 countries; it provides a logically structured, fully referenced guide to the ways in which science and mathematics education is, informed by the history and philosophy of these disciplines, as well as by the philosophy of education more generally. The first handbook to cover the field, it lays down a much-needed marker of progress to date and provides a platform for informed and coherent future analysis and research of the subject. The publication comes at a time of heightened worldwide concern over the standard of science and mathematics education, attended by fierce debate over how best to reform curricula and enliven student engagement in the subjects. There is a growing recognition among educators and policy makers that the learning of science must dovetail with learning about science; this handbook is uniquely positioned as a locus for the discussion. The handbook features sections on pedagogical, theoretical, national, and biographical research, setting the literature of each tradition in its historical context. It reminds readers at a crucial juncture that there has been a long and rich tradition of historical and philosophical engagements with science and mathematics teaching, and that lessons can be learnt from these engagements for the resolution of current theoretical, curricular and pedagogical questions that face teachers and administrators. Science educators will be grateful for this unique, encyclopaedic handbook, Gerald Holton, Physics Department, Harvard University This handbook gathers the fruits of over thirty years' research by a growing international and cosmopolitan community Fabio Bevilacqua, Physics Department, University of Pavia

Physics Before and After Einstein-Marco Mamone Capria 2005-01-01 It is now a century ago that one of the icons of modern physics published some of the most influential scientific papers of all times. With his work on relativity and quantum theory, Albert Einstein has altered the field of physics forever. It should not come as a surprise that looking back at Einstein's work, one needs to rethink the whole scope of physics, before and after his time. This book aims to provide a perspective on the history of modern physics, spanning from the late 19th century up to today. It is not an encyclopaedic work, but it presents the groundbreaking and sometimes provocative main contributions by Einstein as marking the line between 'old' and 'new' physics, and expands on some of the developments and open issues to which they gave rise. This presentation is not meant as a mere celebration of Einstein's work, but as a critical appraisal which provides accurate historical and conceptual information. The contributing authors all have a reputation for working on themes related to Einstein's work and its consequences. Therefore, the collection of papers gives a good representation of what happened in the 100 years after Einstein's landmark Annalen der Physik articles. All people interested in the field of physics, history of science and epistemology could benefit from this book. An effort has been made to make the book attractive not only to scientists, but also to people with a more basic knowledge of mathematics and physics.

Theories of Gravitation-Jayant Vishnu Narlikar 1965

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.

The Comparative Reception of Relativity-T.F Glick 2012-12-06 The present volume grew out of a double session of the Boston Colloquium for the Philosophy of Science held in Boston on March 25, 1983. The papers presented there (by Biezunski, Glick, Goldberg, and Judith Goodstein!) offered both sufficient comparability to establish regularity ties in the reception of relativity and Einstein's impact in France, Spain, the United States and Italy, and sufficient contrast to suggest the salience of national inflections in the process. The interaction among the participants and the added perspectives offered by members of the audience suggested the interest of commissioning articles for a more inclusive volume which would cover as many national cases as we could muster. Only general guidelines were given to the authors: to treat the special or general theories, or both, hopefully in a multidisciplinary setting, to examine the popular reception of relativity, or Einstein's personal impact, or to survey all these topics. In a previous volume, on the 2 comparative reception of Darwinism, one of us devised a detailed set of guidelines which in general were not followed. In our opinion, the studies in this collection offer greater comparability, no doubt because relativity by its nature and its complexity offers a sharper, more easily bounded target. As in the Darwinism volume, this book concludes with an essay intended to draw together in comparative perspective some of many themes addressed by the participants.

Science and Method-Henri Poincaré 2013-02-21 Classic account of basic methodology and psychology of scientific discovery explains how scientists analyze and choose their working facts and explores the nature of experimentation, theory, and the mind. 1914 edition.

Semiotics Unbounded-Susan Petrilli 2005 The more human knowledge increases, the more signs grow and, with this expansion, the more the boundaries of the science that studies signs also grows. In *Semiotics Unbounded*, Susan Petrilli and Augusto Ponzio explain the explosion of the sign network in the era of global communication and discuss the important theoretical responses offered by semiotics. Providing a much-needed introductory guide to the subject, Petrilli and Ponzio explore the ever-growing frontiers of semiotics through the thought of prominent sign scholars such as Charles Peirce, Victoria Welby, Mikhail Bakhtin, Charles Morris, and Thomas Sebeok. In an era of global communication, a global approach is necessary, and what may seem to be the whole, is only a part - a view being at once globalizing and open. Each and every sign is never self-sufficient and closed but exists always in a relation of otherness. This is true of the signs forming animals and human beings, individuals and communities, and involves the implication of all living beings in the life of all others. *Semiotics Unbounded* offers a new and original survey of the science of signs, evaluating it in relation to the problems of our time, not only of a scientific order, but also the problems concerning everyday social life.

Space, Time, Matter-Hermann Weyl 1922

Topology And Physics-Mo-lin Ge 2019-01-09 'The book is an engaging and influential collection of significant contributions from an assembly of world expert leaders and pioneers from different fields, working at the interface between topology and physics or applications of topology to physical systems ... The book explores many interesting and novel topics that lie at the intersection between gravity, quantum fields, condensed matter, physical cosmology and topology ... A rich, well-organized, and comprehensive overview of remarkable and insightful connections between physics and topology is here made available to the physics reader.' Contemporary Physics Since its birth in Poincaré's seminal 1894 'Analysis Situs', topology has become a cornerstone of mathematics. As with all beautiful mathematical concepts, topology inevitably — resonating with that Wignerian principle of the effectiveness of mathematics in the natural sciences — finds its prominent role in physics. From Chern-Simons theory to topological quantum field theory, from knot invariants to Calabi-Yau compactification in string theory, from spacetime topology in cosmology to the recent Nobel Prize winning work on topological insulators, the interactions between topology and physics have been a triumph over the past few decades. In this eponymous volume, we are honoured to have contributions from an assembly of grand masters of the field, guiding us with their world-renowned expertise on the subject of the interplay between 'Topology' and 'Physics'. Beginning with a preface by Chen Ning Yang on his recollections of the early days, we proceed to a novel view of nuclei from the perspective of complex geometry by Sir Michael Atiyah and Nick Manton, followed by an entrée toward recent developments in two-dimensional gravity and intersection theory on the moduli space of Riemann surfaces by Robbert Dijkgraaf and Edward Witten; a study of Majorana fermions and relations to the Braid group by Louis H Kauffman; a pioneering investigation on arithmetic gauge theory by Minhyong Kim; an anecdote-enriched review of singularity theorems in black-hole physics by Sir Roger Penrose; an adventure beyond anyone's by Zhenghan Wang; an aperçu on topological insulators from first-principle calculations by Haijun Zhang and Shou-Cheng Zhang; finishing with synopsis on quantum information theory as one of the four revolutions in physics and the second quantum revolution by Xiao-Gang Wen. We hope that this book will serve to inspire the research community.

The World as I See It-Albert Einstein 2018-12-18 This interesting book allows us to explore Einstein's beliefs, philosophical ideas, and opinions on many subjects. In addition to these political perspectives, *The World As I See It* reveals the idealistic, spiritual, and witty side of this great intellectual as he approaches topics including 'Good and Evil', 'Religion and Science', 'Active Pacifism', 'Christianity and Judaism', and 'Minorities'. Including letters, speeches, articles, and essays written before 1935, this collection offers a complete portrait of Einstein as a humanitarian and as a human being trying to make sense of the changing world around him.

Revisiting the Foundations of Relativistic Physics-Ashtekar 2011-06-28 2) the globalization of capital has far outstripped the ability of current labor movements, organized at best on a national level, to conduct an effective

defense of the interests of labor within capitalism, let alone to seriously challenge the capitalist system. To develop some form-or forms--of international organization of labor, long an ideological challenge ("Workers of the World Unite") has now become an urgent matter of survival for the labor movements of the world. Here is a challenge, on which I think broad agreement is possible: Even those who think capitalism is capable of indefinite survival must agree that it has functioned best in the past-for example, during the long period of post-World War II expansion when the power of capital has been effectively limited by the countervailing power of labor. Effective exercise of that power has always depended on overcoming the segmentation of labor due to such factors as locality, race, gender, occupation, etc. , which still remain important. Above, I have singled out the two factors that today seem key to me: the split between mental and manual labor, and segmentation by nationality. Let all concerned about the current state of capitalism work to build up the countervailing power of labor, and let time show whether this results in nothing more than the better functioning of capitalism, or whether a new challenge to the system ultimately emerges.

Cahiers-Paul Valéry 2010

A Window on the Italian Female Modernist Subjectivity-Rossella M. Riccobono 2013-09-17 This collection of essays surveys some of the artistic productions by female figures who stood at the forefront of Italian modernity in the fields of literature, photography, and even the theatre, in order to explore how artistic engagement in women informed their views on, and reactions to the challenges of a changing society and a 'disinhibiting' intellectual landscape. However, one other objective takes on a central role in this volume: that of opening a window on the re-definition of the subjectivity of the self that occurred during an intriguing and still not fully studied period of artistic and societal changes. In particular, the present volume aims to define a female Italian Modernism which can be seen as complementary, and not necessarily in opposition, to its male counterpart.

The Beauty of Fractals-Heinz-Otto Peitgen 2013-12-01 Now approaching its tenth year, this hugely successful book presents an unusual attempt to publicise the field of Complex Dynamics. The text was originally conceived as a supplemented catalogue to the exhibition "Frontiers of Chaos", seen in Europe and the United States, and describes the context and meaning of these fascinating images. A total of 184 illustrations - including 88 full-colour pictures of Julia sets - are suggestive of a coffee-table book. However, the invited contributions which round off the book lend the text the required formality. Benoit Mandelbrot gives a very personal account, in his idiosyncratic self-centred style, of his discovery of the fractals named after him and Adrien Douady explains the solved and unsolved problems relating to this amusingly complex set.

The Born-Einstein Letters-Albert Einstein 1971

Europe and Empire-Massimo Cacciari 2016-01-04 The European Union and the single currency have given Europe more stability than it has known in the past thousand years, yet Europe seems to be in perpetual crisis about its global role. The many European empires are now reduced to a multiplicity of ethnicities, traditions, and civilizations. Europe will never be One, but to survive as a union it will have to become a federation of "islands" both distinct and connected. Though drawing on philosophers of Europe's past, Cacciari calls not to resist Europe's sunset but to embrace it. Europe will have to open up to the possibility that in few generations new exiles and an unpredictable cultural hybridism will again change all we know about the European legacy. Though scarcely alive in today's politics, the political unity of Europe is still a necessity, however impossible it seems to achieve.

Scientific Autobiography-Max Planck 2014-11-04 In this fascinating autobiography from one of the foremost geniuses of twentieth-century physics, Max Planck tells the story of his life, his aims, and his thinking. Published posthumously, the papers in this volume were written for the general reader and make accessible Planck's scientific theories as well as his philosophical ideals, including his thoughts on ethics and morals.

The Wave-Particle Dualism-S. Diner 2012-12-06 The Louis de Broglie Foundation (which was created in 1973, for the fiftieth anniversary of the discovery of wave mechanics) and the University of Perugia, have offered an international symposium to Louis de Broglie on his 90th birthday. This publication re-presents the Proceedings of this conference which was held in Perugia on April 22-30, 1982. It was an opportunity for the developing of physical conceptions of all origins, which may serve to throw light on the mysterious power of the quantum theory. Quantum Mechanics has reached maturity in its formalism and although no experiment yet has come to challenge its predictions, one may question the limits of its validity. In fact the true meaning of this vision of the microphysical world remains the subject of endless debating, at the heart of which lies "the foundational myth" of wave-particle dualism. Albert Einstein and Louis de Broglie are the two discoverers of this fundamental duality, which they always considered as a deep physical reality rather than a phenomenological artifact. During the conference a survey has been given of the essential recent experimental results in corpuscular and quantum optics and the most up-to-date theoretical aspects of the specificity of microphysical phenomena : various interpretations of quantum mechanics, "alternative theories" and hidden parameters theories, probabilistic and axiomatic questions and tentative crucial experiments. The conference took place in the magnificent atmosphere of the villa Colombella lent to us by the Università per Stranieri di Perugia.

Gravitation and Gauge Symmetries-M Blagojevic 2001-10-25 In the course of the development of electromagnetic, weak and strong interactions, the concept of (internal) gauge invariance grew up and established itself as an unavoidable dynamical principle in particle physics. It is less known that the principle of equivalence, and the basic dynamical properties of the gravitational interaction can also be ex