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Rhymes with Pork **The Concept of Probability in Statistical Physics** Muon
and Muonium Chemistry **Our Universes** Methods for Solving Inverse
Problems in Mathematical Physics **The Routledge Companion to**
Philosophy of Physics **The Diachronic Mind** Active Materials

The Diachronic Mind Nov 22 2019 The Diachronic Mind makes an original contribution to current philosophical debates on the nature of personal identity and the reducibility of the mind. It traces traditional problems facing psychological continuity theories of personal identity to the ease with which theorists of personal identity adopt and apply a sometimes naive physicalism about the mind. This novel diagnosis opens that way to new solutions to traditional problems in the debate on the psychological criterion of personal

identity. Through these solutions, an unorthodox version of nonreductive physicalism about the mind-brain relation is developed that avoids the recurrent epiphenomenalism objection to such positions. The book is written in a crisp style that presupposes no more than an elementary knowledge of philosophy. It is intended for students and professional philosophers alike. *Group Theory with Applications in Chemical Physics* Apr 08 2021 Group Theory is an indispensable mathematical tool in many branches of chemistry and physics. This book provides a self-contained and rigorous account on the fundamentals and applications of the subject to chemical physics, assuming no prior knowledge of group theory. The first half of the book focuses on elementary topics, such as molecular and crystal symmetry, whilst the latter half is more advanced in nature. Discussions on more complex material such as space groups, projective representations, magnetic crystals and spinor bases, often omitted from introductory texts, are expertly dealt with. With the inclusion of numerous exercises and worked examples, this book will appeal to advanced undergraduates and beginning graduate students studying physical sciences and is an ideal text for use on a two-semester course.

Muon and Muonium Chemistry Mar 27 2020 This book covers all aspects of the chemical behaviour of the muon - a rare, short-lived, elementary particle having a mass intermediate between that of the proton and the electron. Muons provide an exceptional opportunity to investigate basic chemical interactions, simply because they are so short-lived: they can thus be studied using the powerful technique of muon spin rotation, in which the yield, decay rate and identity of the muon in several different states is observed. Although originally of principal interest to nuclear and particle physicists, muons have recently become important as probes in solid-state physics and in all phases of chemistry. This book will be a valuable source of information for research scientists, university teachers and graduate students interested in physical chemistry, chemical physics and the application of nuclear science to the life sciences.

Science and Technology Education and Communication Jan 17 2022 Science & technology education on the one hand, and communication on the other, are, to a large extent, still separate worlds and many opportunities for synergy and cross-fertilisation are yet unused. This divide is unfortunate, since educators need communication skills and communicators often use aspects of education in their strategies. Moreover, innovation processes in both domains ask for education and communication insights and skills. Therefore, scholars and practitioners in both domains must seek connections and synergy by

exchanging insights and ideas. This book discusses the shared aims of science & technology education and communication, such as science literacy and engagement, as well as common processes and challenges, such as social learning, social design and professionalisation, and assessment. Aims, processes, and challenges that inspire, enhance and deepen the education and communication synergy from a theoretical and practical side. If one reads the various chapters and reflects on them from one's own perspective as a scholar or practitioner, the question is no longer if cross-fertilisation and synergy are needed, but when are we seriously going to take up this challenge together. This book aims to initiate the dialogue that the situation in the development of the topic requires at this point.

Methods for Solving Inverse Problems in Mathematical Physics Jan 25 2020
Developing an approach to the question of existence, uniqueness and stability of solutions, this work presents a systematic elaboration of the theory of inverse problems for all principal types of partial differential equations. It covers up-to-date methods of linear and nonlinear analysis, the theory of differential equations in Banach spaces, applications of functional analysis, and semigroup theory.

Conceptual metaphor and embodied cognition in science learning May 21 2022
Scientific concepts are abstract human constructions, invented to make sense of complex natural phenomena. Scientists use specialised languages, diagrams, and mathematical representations of various kinds to convey these abstract constructions. This book uses the perspectives of embodied cognition and conceptual metaphor to explore how learners make sense of these concepts. That is, it is assumed that human cognition – including scientific cognition – is grounded in the body and in the material and social contexts in which it is embedded. Understanding abstract concepts is therefore grounded, via metaphor, in knowledge derived from sensory and motor experiences arising from interaction with the physical world. The volume consists of nine chapters that examine a number of intertwined themes: how systematic metaphorical mappings are implicit in scientific language, diagrams, mathematical representations, and the gestures used by scientists; how scientific modelling relies fundamentally on metaphor and can be seen as a form of narrative cognition; how implicit metaphors can be the sources of learner misconceptions; how conceptual change and the acquisition of scientific expertise involve learning to coordinate the use of multiple implicit metaphors; and how effective instruction can build on recognising the embodied nature of scientific cognition and the role of

metaphor in scientific thought and learning. The volume also includes three extended commentaries from leading researchers in the fields of cognitive linguistics, the learning sciences, and science education, in which they reflect on theoretical, methodological and pedagogical issues raised in the book. This book was originally published as a special issue of the International Journal of Science Education.

The SAGE Handbook of Research in International Education Aug 12 2021 The landscape of international education has changed significantly in the last ten years and our understanding of concepts such as 'international', 'global' and 'multicultural' are being re-evaluated. Fully updated and revised, and now including new contributions from research in South East Asia, the Middle East, China, Japan, Australasia, and North America, the new edition of this handbook analyses the origins, interpretations and contributions of international education and explores key contemporary developments, including: internationalism in the context of teaching and learning leadership, standards and quality in institutions and systems of education the promotion of internationalism in national systems This important collection of research is an essential resource for anyone involved in the practice and academic study of international education, including researchers and teachers in universities, governmental and private curriculum development agencies, examination authorities, administrators and teachers in schools.

Explaining the Universe Oct 02 2020 Charap offers a panoramic view of the physicist's world as the 21st century opens, introducing several ideas about the universe but sparing readers the math behind them. After a review of the 20th century's thorough transformation of physics, he checks in on the latest findings from particle physics, astrophysics, chaos theory, and cosmology.

The Roots of Things Oct 14 2021 Grometstein explains modern physics with enthusiasm, wit and insight. As he presents the usual milestones in the history of modern physics, his central focus is the historical debate regarding the nature of light: is it a particle or is it a wave? This book will be read by generations of students in physical science who seek a well written discussion of these important issues. Grometstein includes material which is quite recent, thus making the present volume particularly useful.

Active Materials Oct 22 2019 What are active materials? This book aims to introduce and redefine conceptions of matter by considering materials as entities that 'sense' and respond to their environment. By examining the modeling of, the experiments on, and the construction of these materials, and by developing a theory of their structure, their collective activity, and their

functionality, this volume identifies and develops a novel scientific approach to active materials. Moreover, essays on the history and philosophy of metallurgy, chemistry, biology, and materials science provide these various approaches to active materials with a historical and cultural context. The interviews with experts from the natural sciences included in this volume develop new understandings of 'active matter' and active materials in relation to a range of research objects and from the perspective of different scientific disciplines, including biology, physics, chemistry, and materials science. These insights are complemented by contributions on the activity of matter and materials from the humanities and the design field. Discusses the mechanisms of active materials and their various conceptualizations in materials science. Redefines conceptions of active materials through interviews with experts from the natural sciences. Contextualizes, historicizes, and reflects on different notions of matter/materials and activity through contributions from the humanities. A highly interdisciplinary approach to a cutting-edge research topic, with contributions from both the sciences and the humanities.

Foundations of General Relativity Sep 13 2021 This book, dedicated to Roger Penrose, is a second, mathematically oriented course in general relativity. It contains extensive references and occasional excursions in the history and philosophy of gravity, including a relatively lengthy historical introduction. The book is intended for all students of general relativity of any age and orientation who have a background including at least first courses in special and general relativity, differential geometry, and topology. The material is developed in such a way that through the last two chapters the reader may acquire a taste of the modern mathematical study of black holes initiated by Penrose, Hawking, and others, as further influenced by the initial-value or PDE approach to general relativity. Successful readers might be able to begin reading research papers on black holes, especially in mathematical physics and in the philosophy of physics. The chapters are: Historical introduction, General differential geometry, Metric differential geometry, Curvature, Geodesics and causal structure, The singularity theorems of Hawking and Penrose, The Einstein equations, The 3+1 split of space-time, Black holes I: Exact solutions, and Black holes II: General theory. These are followed by two appendices containing background on Lie groups, Lie algebras, & constant curvature, and on Formal PDE theory.

The Grand Contraption Jun 10 2021 Park takes readers on an incredible journey that illuminates the multitude of elaborate "contraptions" by which

humans in the Western world have imagined the earth they inhabit--and what lies beyond.

Explanation from Physics to Theology Jan 29 2023 A valuable exposition of the thesis that the explanatory work of theology possesses formal similarities with that of the physical sciences, the social sciences, and philosophy.

Clayton exhibits an impressive command of a broad area of scholarship, and his reflections are balanced and carefully argued. -- Michael J. Buckley, S.J., Jesuit Theological Seminary

Tales of Physicists and Mathematicians Jul 11 2021 This revised and greatly expanded edition of the Russian classic contains a wealth of new information about the lives of many great mathematicians and scientists, past and present. Written by a distinguished mathematician and featuring a unique mix of mathematics, physics, and history, this text combines original source material and provides careful explanations for some of the most significant discoveries in mathematics and physics. What emerges are intriguing, multifaceted biographies that will interest readers at all levels.

Our Universes Feb 24 2020 Lectures, at the frontier where science and philosophy meet, on the relationship between the physical universe and our perception of it.

Probing the Atom Nov 03 2020 The many-faceted efforts to understand the structure and interactions of atoms over the past hundred years have contributed decisively and dramatically to the explosive development of physics. There is hardly a branch of modern physical science that does not in some seminal way rely on the fundamental principles and mathematical and experimental insights that derive from these studies. In particular, the drive to understand the singular features of the hydrogen atom--simultaneously the archetype of all atoms and the least typical atom--spurred many of the twentieth century's advances in physics and chemistry. This book gives an in-depth account of the author's own penetrating experimental and theoretical investigations of the hydrogen atom, while simultaneously providing broad lessons in the application of quantum mechanics to atomic structure and interactions. A pioneer in the combined use of atomic accelerators and radiofrequency spectroscopy for probing the internal structure of the hydrogen atom, Mark Silverman examines the general principles behind this far-reaching experimental approach. Fast-moving protons are directed into gas or foil targets from which they capture electrons to become hydrogen atoms moving uniformly at very high speeds. During their rapid passage through the spectroscopy chamber of the atomic accelerator, these atoms

reveal by the light they emit fascinating details of their internal configuration and the interactions that created them. Silverman examines the effects of radiofrequency fields on the hydrogen atom clearly and systematically, explaining the details of these interactions at different levels of complexity and refinement, each level illuminating the physical processes involved from different and complementary perspectives. Readers interested in diverse areas of physics and physical chemistry will appreciate both the theoretical and practical implications of Silverman's studies and the personal style with which he relays them. This is a work of not only an outstanding research physicist, but a fine teacher who understands how curiosity underlies all science.

Women and Physics Mar 19 2022 This book begins with an examination of the numbers of women in physics in English-speaking countries, moving on to examine factors that affect girls and their decision to continue in science, right through to education and on into the problems that women in physics careers face. Looking at all of these topics with one eye on the progress that the field has made in the past few years, and another on those things that we have yet to address, the book surveys the most current research as it tries to identify strategies and topics that have significant impact on issues that women have in the field.

Discovering the Principles of Mechanics 1600-1800 Dec 28 2022 This book assembles 21 essays on the history of mechanics and mathematical physics written by David Speiser. Covering a period from the beginning of the seventeenth century to the eighteenth, the essays discuss developments in elasticity, rigid bodies, gravitation, the principle of relativity, optics, and first principles. They examine the work of Galileo, Huygens, Newton, Leibniz, the Bernoullis, Euler, Maupertuis, and Lambert.

Divinization and Technology Aug 24 2022 This book offers a political anthropological discussion of subversion, exploring its imbrication with technological and divinization practices, and uncovering some of its particular effects on human existence, from prehistory until the contemporary age. Subversion is often romanticized as a means of opposing or undermining power in the name of supposedly universal values, yet techniques of subversion are actually deployed by people of all modern political and philosophical persuasions. With subversion having become a tool of mainstream 'power' that threatens to dominate social and political reality and so render the populace servile and subject to a generalized culture industry, *Divinization and Technology* examines the ways in which technology and

divinization, with their efforts to unite with divine powers, can be brought together as modalities of subversion.

Absolute Time Jun 22 2022 What is time? This is one of the most fundamental questions we can ask. Traditionally, the answer was that time is a product of the human mind, or of the motion of celestial bodies. In the mid-seventeenth century, a new kind of answer emerged: time or eternal duration is 'absolute', in the sense that it is independent of human minds and material bodies. Emily Thomas explores the development of absolute time or eternal duration during one of Britain's richest and most creative metaphysical periods, from the 1640s to the 1730s. She introduces an interconnected set of main characters - Henry More, Walter Charleton, Isaac Barrow, Isaac Newton, John Locke, Samuel Clarke, and John Jackson - alongside a large and varied supporting cast, whose metaphysical views are all read in their historical context and given a place in the seventeenth- and eighteenth-century development of thought about time.

The Concept of Probability in Statistical Physics Apr 27 2020 A most systematic study of how to interpret probabilistic assertions in the context of statistical mechanics.

Theoretical Atomic Physics Jul 31 2020 This established text contains an advanced presentation of quantum mechanics adapted to the requirements of modern atomic physics. The third edition extends the successful second edition with a detailed treatment of the wave motion of atoms, and it also contains an introduction to some aspects of atom optics that are relevant for current and future experiments involving ultra-cold atoms. Included: Various problems with complete solutions.

Mathematics in Physics Education Oct 26 2022 This book is about mathematics in physics education, the difficulties students have in learning physics, and the way in which mathematization can help to improve physics teaching and learning. The book brings together different teaching and learning perspectives, and addresses both fundamental considerations and practical aspects. Divided into four parts, the book starts out with theoretical viewpoints that enlighten the interplay of physics and mathematics also including historical developments. The second part delves into the learners' perspective. It addresses aspects of the learning by secondary school students as well as by students just entering university, or teacher students. Topics discussed range from problem solving over the role of graphs to integrated mathematics and physics learning. The third part includes a broad range of subjects from teachers' views and knowledge, the analysis of classroom

discourse and an evaluated teaching proposal. The last part describes approaches that take up mathematization in a broader interpretation, and includes the presentation of a model for physics teachers' pedagogical content knowledge (PCK) specific to the role of mathematics in physics.

The Trouble with Physics Feb 18 2022 Sample Text

The Message of the Atoms Sep 25 2022 Message of the Atoms presents insights into the underlying philosophy of the prime formulators of quantum mechanics, as expressed in the famous Copenhagen interpretation. Using Pauli's as the chief guide and reference, the book explores the postulate that physics and psychology must be understood as complementary sciences to be able to describe essential features of reality.

Why Quark Rhymes with Pork May 29 2020 A collection of offbeat, entertaining and primarily nontechnical essays on physics and those who practice it, from eminent theoretical physicist N. David Mermin. Bringing together for the first time all thirty of his columns published in Physics Today's Reference Frame series from 1988 to 2009, with updating commentary, this humorous and unusual volume includes thirteen other essays, many of them previously unpublished. Mermin's lively and penetrating writing illuminates a broad range of topics, from the implications of bad spelling in a major science journal, to the crises of science libraries and scientific periodicals, the folly of scientific prizes and honors, the agony of getting funding, and how to pronounce 'quark'. His witty observations and insightful anecdotes gleaned from a lifetime in science will entertain physicists at all levels, as well as anyone else interested in science or scientists at the turn of the twenty-first century.

Order and Surprise May 09 2021 This collection of essays by America's foremost polymath delves into some of the many fascinating subjects in which Martin Gardner has had an abiding interest. Focusing primarily on literary and philosophical subjects, Order and Surprise is the sequel to the widely acclaimed Science: Good, Bad and Bogus. Some of Gardner's best essays and reviews are included in this volume, such as: "Why Librarians Dislike Oz" "The Strange Case of Robert Maynard Hutchins" "H.G. Wells, 'Premature' Anti-Communist" "Orwell's Nineteen Eighty-Four" "Is Nature Ambidextrous?" "Beyond Cultural Relativism" "The Popperism of Sir Karl" "Keeping Up With Einstein" In addition, Gardner has included many of his perceptive reviews of books by and about such authors as Franz Kafka, Thomas Wolfe, John Updike, Vance Packard, Colin Wilson, Lewis Carroll, and many others. In some cases the author has modified the original texts,

sometimes restoring passages removed by editors, sometimes adding new footnotes to update the material. In many cases, Gardner has added a postscript that allows him to comment on an article or review. Like the previous anthology, this book is divided into two parts. The first contains articles in chronological order of publication; the second, book reviews in similar order. Order and Surprise represents Gardner at his best - incisive, witty, and urbane.

Discovering the Natural Laws Dec 16 2021 Accessible, nonmathematical introduction to theory, experiments underlying laws of gravitation, motion, conservation of energy, electromagnetism, relativity, more. New epilogue. Bibliography.

The Routledge Companion to Philosophy of Physics Dec 24 2019 The Routledge Companion to Philosophy of Physics is a comprehensive and authoritative guide to the state of the art in the philosophy of physics. It comprises 54 self-contained chapters written by leading philosophers of physics at both senior and junior levels, making it the most thorough and detailed volume of its type on the market – nearly every major perspective in the field is represented. The Companion's 54 chapters are organized into 12 parts. The first seven parts cover all of the major physical theories investigated by philosophers of physics today, and the last five explore key themes that unite the study of these theories. I. Newtonian Mechanics II. Special Relativity III. General Relativity IV. Non-Relativistic Quantum Theory V. Quantum Field Theory VI. Quantum Gravity VII. Statistical Mechanics and Thermodynamics VIII. Explanation IX. Intertheoretic Relations X. Symmetries XI. Metaphysics XII. Cosmology The difficulty level of the chapters has been carefully pitched so as to offer both accessible summaries for those new to philosophy of physics and standard reference points for active researchers on the front lines. An introductory chapter by the editors maps out the field, and each part also begins with a short summary that places the individual chapters in context. The volume will be indispensable to any serious student or scholar of philosophy of physics.

Design Recommendations for Intelligent Tutoring System - Volume 5:

Assessment Methods Jul 23 2022 This book is the fifth in a planned series of books that examine key topics (e.g., learner modeling, instructional strategies, authoring, domain modeling, assessment, impact on learning, team tutoring, machine learning, and potential standards) in intelligent tutoring system (ITS) design through the lens of the Generalized Intelligent Framework for Tutoring (GIFT) (Sottolare, Brawner, Goldberg & Holden, 2012; Sottolare,

Brawner, Sinatra, & Johnston, 2017). GIFT is a modular, service-oriented architecture created to reduce the cost and skill required to author ITSs, manage instruction within ITSs, and evaluate the effect of ITS technologies on learning, performance, retention, transfer of skills, and other instructional outcomes. Along with this volume, the first four books in this series, Learner Modeling (ISBN 978-0-9893923-0-3), Instructional Management (ISBN 978-0-9893923-2-7), Authoring Tools (ISBN 978-0-9893923-6-5) and Domain Modeling (978-0-9893923-9-6) are freely available at www.GIFTtutoring.org and on Google Play.

The Martians of Science Jan 05 2021 The Martians is the engaging story of five little-known Hungarian physicists who transformed 20th century science. They emigrated to the United States from Hungary in the 1930's, and were important contributors to such important experiments as the Manhattan Project. Various recognized with the National Medal for Science, the Presidential Medal of Freedom and the Nobel Prize for physics, these five remained close friends throughout their lives. Through decades of political and social upheaval, they held onto their Hungarian identities and were fervently opinionated and politically active, reactionaries against the fascism and anti-Semitism with which they had grown up. Based on the author's personal relationships with the subjects and many interviews with their contemporaries, The Martians is an exhaustively researched, fascinating story of an important era in American, Hungarian, and scientific history.

Physics in Molecular Biology Nov 15 2021 This book, first published in 2005, is a discussion for advanced physics students of how to use physics to model biological systems.

How Should Humanity Steer the Future? Mar 02 2023 The fourteen award-winning essays in this volume discuss a range of novel ideas and controversial topics that could decisively influence the course of human life on Earth. Their authors address, in accessible language, issues as diverse as: enabling our social systems to learn; research in biological engineering and artificial intelligence; mending and enhancing minds; improving the way we do, and teach, science; living in the here and now; and the value of play. The essays are enhanced versions of the prize-winning entries submitted to the Foundational Questions Institute (FQXi) essay competition in 2014. FQXi, catalyzes, supports, and disseminates research on questions at the foundations of physics and cosmology, particularly new frontiers and innovative ideas integral to a deep understanding of reality, but unlikely to be supported by conventional funding sources.

Philosophical Essays Apr 20 2022 A collection of personal essays in philosophy of science (physics, especially gravity), philosophy of information and communication technology, current social issues (emotional intelligence, COVID-19 pandemic, eugenics, intelligence), philosophy of art, and logic and philosophy of language. The distinction between falsification and refutation in the demarcation problem of Karl Popper Imre Lakatos - Heuristics and methodological tolerance Isaac Newton on the action at a distance in gravity: With or without God? Causal Loops in Time Travel The singularities as ontological limits of the general relativity Epistemology of Experimental Gravity - Scientific Rationality Philosophy of Blockchain Technology - Ontologies Big Data Ethics in Research Emotions and Emotional Intelligence in Organizations COVID-19 Pandemic - Philosophical Approaches Evolution and Ethics of Eugenics Epistemology of Intelligence Agencies Solaris, directed by Andrei Tarkovsky - Psychological and philosophical aspects Causal theories of reference for proper names

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 Publishing

McGraw-Hill's SAT, 2014 Edition Dec 04 2020 Provides a review of the subjects and skills covered in the SAT, including six practice examinations, tips for completing the test, and flash cards.

Entropy Demystified Sep 01 2020 This book makes very good reading for all students of thermodynamics, as well as for more-advanced people who do (or do not) feel comfortable with the fascinating concept of entropy.

Scientonomy: The Challenges of Constructing a Theory of Scientific Change
 Feb 06 2021 During the so-called 'historical turn' in the philosophy of science, philosophers and historians boldly argued for general patterns throughout the history of science. From Kuhn's landmark "Structure of Scientific Revolutions" until the "Scrutinizing Science" project led by Larry Laudan, there was optimism that there could be a general theoretical approach to understanding the process of scientific change. This optimism gradually faded as historians and philosophers began to focus on the details of specific case studies located within idiosyncratic historical, cultural, and political contexts, and abandoned attempts to uncover general patterns of how scientific theories and methods change through time. Recent research has suggested that while we have learned a great deal about the diversity and complexity of scientific practices across history, the push to abandon hope for a broader understanding of scientific change was premature. Because of this, philosophers, historians, and social scientists have become interested in reviving the project of understanding the mechanism of scientific change

while respecting the diversity and complexity that has been unveiled by careful historical research over the past few decades. The chapters in this volume consider a particular proposal for a general theory of how scientific theories and methods change over time, first articulated by Hakob Barseghyan in "The Laws of Scientific Change" and since developed in a series of papers by a variety of members of the scientonomy community. The chapters consider a wide range of issues, from conceptual and historical challenges to the posited intellectual patterns in the history of science, to the possibility of constructing a general theory of scientific change, to begin with. Offering a new take on the project of constructing a theory of scientific change and integrating historical, philosophical, and social studies of science, this volume will be of interest to historians, philosophers, and sociologists of science.

Information Theory Applied to Space-time Physics Jun 29 2020 The success of Newton's mechanics, Maxwell's electrodynamic, Einstein's theories of relativity, and quantum mechanics is a strong argument for the space-time continuum. Nevertheless, doubts have been expressed about the use of a continuum in a science squarely based on observation and measurement. An exact science requires that qualitative arguments must be reduced to quantitative statements. The observability of a continuum can be reduced from qualitative arguments to quantitative statements by means of information theory. Information theory was developed during the last decades within electrical communications, but it is almost unknown in physics. The closest approach to information theory in physics is the calculus of propositions, which has been used in books on the frontier of quantum mechanics and the general theory of relativity. Principles of information theory are discussed in this book. The ability to think readily in terms of a finite number of discrete samples is developed over many years of using information theory and digital computers, just as the ability to think readily in terms of a continuum is developed by long use of differential calculus.

Liberating Sociology: From Newtonian Toward Quantum Imaginations:

Volume 1: Unriddling the Quantum Enigma Nov 27 2022 In this major new study in the sociology of scientific knowledge, social theorist Mohammad H. Tamdgidi reports having unriddled the so-called 'quantum enigma.' This book opens the lid of the Schrödinger's Cat box of the 'quantum enigma' after decades and finds something both odd and familiar: Not only the cat is both alive and dead, it has morphed into an elephant in the room in whose interpretation Einstein, Bohr, Bohm, and others were each both right and

wrong because the enigma has acquired both localized and spread-out features whose unriddling requires both physics and sociology amid both transdisciplinary and transcultural contexts. The book offers, in a transdisciplinary and transcultural sociology of self-knowledge framework, a relativistic interpretation to advance a liberating quantum sociology. Deeper methodological grounding to further advance the sociological imagination requires investigating whether and how relativistic and quantum scientific revolutions can induce a liberating reinvention of sociology in favor of creative research and a just global society. This, however, necessarily leads us to confront an elephant in the room, the 'quantum enigma.' In *Unriddling the Quantum Enigma*, the first volume of the series commonly titled *Liberating Sociology: From Newtonian toward Quantum Imaginations*, sociologist Mohammad H. Tamdgidi argues that unriddling the 'quantum enigma' depends on whether and how we succeed in dehabituating ourselves in favor of unified relativistic and quantum visions from the historically and ideologically inherited, classical Newtonian modes of imagining reality that have subconsciously persisted in the ways we have gone about posing and interpreting (or not) the enigma itself for more than a century. Once this veil is lifted and the enigma unriddled, he argues, it becomes possible to reinterpret the relativistic and quantum ways of imagining reality (including social reality) in terms of a unified, nonreductive, creative dialectic of part and whole that fosters quantum sociological imaginations, methods, theories, and practices favoring liberating and just social outcomes. The essays in this volume develop a set of relativistic interpretive solutions to the quantum enigma. Following a survey of relevant studies, and an introduction to the transdisciplinary and transcultural sociology of self-knowledge framing the study, overviews of Newtonianism, relativity and quantum scientific revolutions, the quantum enigma, and its main interpretations to date are offered. They are followed by a study of the notion of the "wave-particle duality of light" and the various experiments associated with the quantum enigma in order to arrive at a relativistic interpretation of the enigma, one that is shown to be capable of critically cohering other offered interpretations. The book concludes with a heuristic presentation of the ontology, epistemology, and methodology of what Tamdgidi calls the creative dialectics of reality. The volume essays involve critical, comparative/integrative reflections on the relevant works of founding and contemporary scientists and scholars in the field. This study is the first in the monograph series "Tayyebah Series in East-West Research and Translation" of *Human Architecture: Journal of the*

Sociology of Self-Knowledge (XIII, 2020), published by OKCIR: Omar Khayyam Center for Integrative Research in Utopia, Mysticism, and Science (Utopystics). OKCIR is dedicated to exploring, in a simultaneously world-historical and self-reflective framework, the human search for a just global society. It aims to develop new conceptual (methodological, theoretical, historical), practical, pedagogical, inspirational and disseminative structures of knowledge whereby the individual can radically understand and determine how world-history and her/his selves constitute one another. Reviews

“Mohammad H. Tamdgidi’s *Liberating Sociology: From Newtonian Toward Quantum Imaginations, Volume 1, Unriddling the Quantum Enigma* hits the proverbial nail on the head of an ongoing problem not only in sociology but also much social science—namely, many practitioners’ allegiance, consciously or otherwise, to persisting conceptions of ‘science’ that get in the way of scientific and other forms of theoretical advancement. Newtonianism has achieved the status of an idol and its methodology a fetish, the consequence of which is an ongoing failure to think through important problems of uncertainty, indeterminacy, multivariation, multidisciplinary, and false dilemmas of individual agency versus structure, among many others. Tamdgidi has done great service to social thought by bringing to the fore this problem of disciplinary decadence and offering, in effect, a call for its teleological suspension—thinking beyond disciplinarity—through drawing upon and communicating with the resources of quantum theory not as a fetish but instead as an opening for other possibilities of social, including human, understanding. The implications are far-reaching as they offer, as the main title attests, liberating sociology from persistent epistemic shackles and thus many disciplines and fields connected to things ‘social.’ This is exciting work. A triumph! The reader is left with enthusiasm for the second volume and theorists of many kinds with proverbial work to be done.” — Professor Lewis R. Gordon, Honorary President of the Global Center for Advanced Studies and author of *Disciplinary Decadence: Living Thought in Trying Times* (Routledge/Paradigm, 2006), and *Freedom, Justice, and Decolonization* (Routledge, forthcoming 2020) "Social sciences are still using metatheoretical models of science based on 19th century newtonian concepts of "time and space". Mohammad H. Tamdgidi has produced a 'tour de force' in social theory leaving behind the old newtonian worldview that still informs the social sciences towards a 21st century non-dualistic, non-reductionist, transcultural, transdisciplinary, post-Einsteinian quantum concept of TimeSpace. Tamdgidi goes beyond previous efforts done by titans of social

theory such as Immanuel Wallerstein and Kyriakos Kontopoulos. This book is a quantum leap in the social sciences at large. Tamdgidi decolonizes the social sciences away from its Eurocentric colonial foundations bringing it closer not only to contemporary natural sciences but also to its convergence with the old Eastern philosophical and mystical worldviews. This book is a masterpiece in social theory for a 21st century decolonial social science. A must read!" — Professor Ramon Grosfoguel, University of California at Berkeley??????? "Tamdgidi's *Liberating Sociology* succeeds in adding physical structures to the breadth of the world-changing vision of C. Wright Mills, the man who mentored me at Columbia. Relativity theory and quantum mechanics can help us to understand the human universe no less than the physical universe. Just as my *Creating Life Before Death* challenges bureaucracy's conformist orientation, so does *Liberating Sociology* "liberate the infinite possibilities inherent in us." Given our isolation in the Coronavirus era, we have time to follow Tamdgidi in his journey into the depth of inner space, where few men have gone before. It is there that we can gain emotional strength, just as Churchill, Roosevelt and Mandela empowered themselves. That personal development was needed to address not only their own personal problems, but also the mammoth problems of their societies. We must learn to do the same." — Bernard Phillips, Emeritus Sociology Professor, Boston University

Playful Disruption of Digital Media Mar 07 2021 This book starts with the proposition that digital media invite play and indeed need to be played by their everyday users. Play is probably one of the most visible and powerful ways to appropriate the digital world. The diverse, emerging practices of digital media appear to be essentially playful: Users are involved and active, produce form and content, spread, exchange and consume it, take risks, are conscious of their own goals and the possibilities of achieving them, are skilled and know how to acquire more skills. They share a perspective of can-do, a curiosity of what happens next? Play can be observed in social, economic, political, artistic, educational and criminal contexts and endeavours. It is employed as a (counter) strategy, for tacit or open resistance, as a method and productive practice, and something people do for fun. The book aims to define a particular contemporary attitude, a playful approach to media. It identifies some common ground and key principles in this novel terrain. Instead of looking at play and how it branches into different disciplines like business and education, the phenomenon of play in digital media is approached unconstrained by disciplinary boundaries. The

contributions in this book provide a glimpse of a playful technological revolution that is a joyful celebration of possibilities that new media afford. This book is not a practical guide on how to hack a system or to pirate music, but provides critical insights into the unintended, artistic, fun, subversive, and sometimes dodgy applications of digital media. Contributions from Chris Crawford, Mathias Fuchs, Rilla Khaled, Sybille Lammes, Eva and Franco Mattes, Florian 'Floyd' Mueller, Michael Nitsche, Julian Oliver, and others cover and address topics such as reflective game design, identity and people's engagement in online media, conflicts and challenging opportunities for play, playing with cartographical interfaces, player-emergent production practices, the re-purposing of data, game creation as an educational approach, the ludification of society, the creation of meaning within and without play, the internalisation and subversion of roles through play, and the boundaries of play.

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