



# QUANTUM CYBERNETICS

Toward a Unification of  
Relativity and Quantum  
Theory via Circularly  
Causal Modeling

Gerhard Grössing

# Quantum Cybernetics Towards A Unification Of Relativity And Quantum Theory Via Circularly Casual Modeling

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## **Quantum Cybernetics Towards A Unification Of Relativity And Quantum Theory Via Circularly Casual Modeling:**

Quantum Cybernetics Gerhard Grössing, 2012-12-06 Some 350 years ago in his *Discorsi e Dimostrazioni Matematiche* Galilei Galileo Galilei discussed whether or not light propagated with a finite though very high velocity or with infinite speed instantaneously The question was an open one then with prominent proponents for either position For example Rene Descartes argued on philosophical grounds that light dispersed itself into all of space instantaneously whereas Galileo was more inclined toward the idea of a finite velocity In fact he even reported about an early experiment which however would have to be refined and performed again to reach a definite conclusion Sagredo However of which kind and how high might we estimate the velocity of light Is the appearance instantaneous momentaneous or like other movements temporal Could one decide this experimentally Simplicio Daily experience teaches us that the spreading of light be instantaneous if in a large distance the artillery performs shooting exercises we see the glare of the flame without the ear perceives the sound only after some time delay while considerable time

Cybernetics D.A Novikov, 2015-12-09 This book is a concise navigator across the history of cybernetics its state of the art and prospects The evolution of cybernetics from N Wiener to the present day and the reasons of its ups and downs are presented The correlation of cybernetics with the philosophy and methodology of control as well as with system theory and systems analysis is clearly demonstrated The book presents a detailed analysis focusing on the modern trends of research in cybernetics A new development stage of cybernetics the so called cybernetics 2.0 is discussed as a science on general regularities of systems organization and control The author substantiates the topicality of elaborating a new branch of cybernetics i.e. organization theory which studies an organization as a property process and system The book is intended for theoreticians and practitioners as well as for students postgraduates and doctoral candidates In the first place the target audience includes tutors and lecturers preparing courses on cybernetics control theory and systems science

Thermodynamic Approaches in Engineering Systems Stanislaw Sieniutycz, 2016-05-20 Thermodynamic Approaches in Engineering Systems responds to the need for a synthesizing volume that throws light upon the extensive field of thermodynamics from a chemical engineering perspective that applies basic ideas and key results from the field to chemical engineering problems This book outlines and interprets the most valuable achievements in applied non equilibrium thermodynamics obtained within the recent fifty years It synthesizes nontrivial achievements of thermodynamics in important branches of chemical and biochemical engineering Readers will gain an update on what has been achieved what new research problems could be stated and what kind of further studies should be developed within specialized research Presents clearly structured chapters beginning with an introduction elaboration of the process and results summarized in a conclusion Written by a first class expert in the field of advanced methods in thermodynamics Provides a synthesis of recent thermodynamic developments in practical systems Presents very elaborate literature discussions from the past fifty years

**Introducción a la computación cuántica para ingenieros** David Terán, 2012-11-20 Obra técnica en su género detalla los

conceptos generales y los temas más relevantes de la Computación Cuántica Este libro es dirigido a estudiantes investigadores y al público en general interesado en el tema de la Computación Cuántica El libro es diseñado para emplearse como libro de texto o de consulta en aquellas materias donde se tratan Temas Selectos y Especiales de nuevas tecnologías en el rea de cómputo o en las asignaturas de Física en cursos específicos de Ingeniería de los últimos semestres ya que cubre satisfactoriamente los diversos tpicos que se tratan en dichos cursos *American Book Publishing Record* R.R. Bowker Company,1978 **Physics Letters** ,2002 General physics atomic physics molecular physics and solid state physics

**Etnosains dan Etnomatematik Alam Melayu (Penerbit UM)** Mat Rofa Ismail, Apakah sumbangan orang Melayu dalam sains dan matematik Persoalan ini dibincangkan di bawah istilah etnosains dan etnomatematik seperti yang diterokai oleh gabungan pengarang dalam buku ini Sumbangan etnosains dan etnomatematik di Alam Melayu berakar umbi bersama sejarah dan budaya yang membentuk acuan ilmu yang penuh dengan sistem nilai tempatan dan serantau Apabila rantau Melayu terjajah oleh kolonialisme Barat maka penulisan sejarah telah berubah paradigma daripada rantau yang mempunyai tamadun yang agung kepada rantau jajahan yang menjulang tinggi budaya Barat yang memisahkan ilmu daripada nilai Ilmu tradisi umat Melayu terpinggir dalam penulisan acuan kolonialisme kerana secara beransur ansur penjajahan bukan sahaja berlaku terhadap fizikal dan geografi tetapi juga sejarah pemikiran dan minda Ilmu yang berteraskan sains dan matematik yang lahir daripada budaya Melayu Islam seperti mantik penghujahan pemikiran kefalsafahan perdebatan sufisme pelayaran seni perubatan pengiraan takwim kalendar dan musim seni bina retorik dan ketatabahasa panalogam persenjataan tenunan dan warisan yang lain semakin terpinggir dalam penulisan umat Melayu Pendokumentasian yang dilakukan penjajah diwarnakan oleh sistem nilai mereka di bawah paradigma kolonialisme yang lebih memetik aspek khurafat atau kelemahan berbanding pemikiran mantik yang lebih saintifik Hingga kini keagungan pemikiran etnosains dan etnomatematik Melayu masih tersorok dalam lipatan sejarah Maka menerusi tulisan beberapa tokoh ilmuwan tempatan sebahagian aspek tersebut diuraikan dalam buku ini sebagai percubaan pentakrifan domain kajian dan diharapkan akan menjadi bidang yang penting dalam epistemologi etnografi Melayu pada masa akan datang **Books in Print Supplement** ,2002 *Etnosains dan etnomatematik alam Melayu* Mat Rofa Ismail,2018 Intellectual works of Malay people on ethnoscience and ethnomathematics papers of a seminar **Konstruktivismus und Kognitionswissenschaft** Albert Müller,Karl H. Müller,Friedrich Stadler,2001 Heinz von Foerster dem dieses Buch gewidmet ist geht als Grönder und jahrzehntelanger Direktor des Biological Computer Laboratory zu den frühen Vordenkern und bedeutendsten Anregern heutiger Leitwissenschaften wie Kybernetik Informatik systemische Theorien Bio Kybernetik Bionik usw Dieser Band setzt sich mit der Biografie dieses bedeutenden Wissenschaftlers und den Wiener Wurzeln seiner Ideen auseinander In einer Reihe von Beiträgen wird gezeigt welchen Einfluss das Denken Heinz von Foersters auf eine Vielfalt von Disziplinen hatte und hat vor allem auf das gegenwärtige konstruktivistische Denken Persönliche Erinnerungen und Würdigungen geben ein anschauliches Bild der Persönlichkeit

Heinz von Foersters Eine Bibliografie seiner Schriften erleichtert dem Leser die weitere Auseinandersetzung mit seinem Schaffen

*Unifying Relativity & Quantum Theory* Edgar L Owen, 2016-10-16 This book explains how the new theory of Universal Reality unifies relativity and quantum theory By taking a computational approach in which spacetime is not a pre existing container for events but is computed in the form of an entanglement network by quantum events along with mass energy structures it avoids the incompatible views of spacetime of relativity and quantum theory which has been the main barrier to their unification This computational model is based on little recognized fundamental principles hidden within both relativity and quantum theory These fundamental principles are simple and easy to understand and revolutionize our understanding of the universe The first principle is that everything in the universe continually travels through combined space and time at the speed of light Thus if anything gains velocity in space its velocity in time automatically slows This principle underlies the time dilation of special relativity and provides a firm physical basis for the arrow of time and a present moment of existence which revolutionizes our understanding of time The second principle is that all forms of mass and energy are different forms of spatial velocity Thus gravitational fields become fields of intrinsic velocity density which by the first principle slow the velocity in time of anything in the field This principle reveals that gravitational time dilation and linear time dilation are two aspects of the same thing and it also reveals the hidden reason for the conservation of mass and energy as simply the conversion of one form of spatial velocity to another Then by taking the processor that actually computes reality as using a fixed number of cycles to compute either velocity in space or velocity in time general relativity automatically emerges and by taking those processor cycles as randomly oscillating between computing velocity in space and velocity in time at the quantum scale the Uncertainty Principle and wavefunction descriptions of particles automatically emerges as well The result is a unified computational process that seamlessly computes both relativity and quantum reality and mass energy and spacetime In the context of the computational model these fundamental principles lead to all sorts of amazing new insights that can't be found anywhere else such as convincing explanations for how the presence of mass actually curves spacetime the true fundamental nature of time the explanation for Newton's bucket and actual versus observational time dilations a simple new and convincing explanation of dark matter and the status and location of the laws of nature as virtual data in computational space all questions current physics has been unable to answer This is a serious scientific theory based solidly in modern physical and computational science that proposes a revolutionary new interpretation of the universe completely consistent with modern physics but from an entirely new perspective Anyone interested in the fundamentals of time relativity quantum theory and reality in general will find this book a fascinating and mind opening read

*The Quantum-Like Revolution* Arkady Plotnitsky, Emmanuel Haven, 2023 Over the last ten years elements of the formalism of quantum mechanics have been successfully applied beyond physics in areas such as psychology especially cognition economics and finance especially in the formalization of so called decision making political science and molecular biology An

important stream of work along these lines commonly under the heading of quantum like modeling has been published in well regarded scientific journals and major publishers have devoted entire books to the topic This Festschrift honors a key figure in this field of research Andrei Khrennikov who made momentous contributions to it and to quantum foundations themselves While honoring these contributions and in order to do so this Festschrift orients its reader toward the future rather than focusing on the past it addresses future challenges and establishes the way forward in both domains quantum like modeling and quantum foundations A while ago in response to the developments of using the quantum formalism outside of quantum mechanics the eminent quantum physicist Anton Zeilinger said Why should it be precisely the quantum mechanics formalism Maybe its generalization would be more adequate This volume responds to this statement by both showing the reasons for the continuing importance of quantum formalism and yet also considering pathways to such generalizations Khrennikov s work has been indispensable in establishing the great promise of quantum and quantum like thinking in shaping the future of scientific research across the disciplines

**Quanta, Logic And Spacetime: Variations On Finkelstein's Quantum Relativity** Stephen A Selesnick, 1998-03-12 In this highly interesting monograph a brief account of Finkelstein s approach to quantum theory and some of its ramifications is given Specifically his suggestion that some sort of quantum set like structure should underlie our macroscopic perception of spacetime is developed to the point where a fair slice of fundamental physics for a massless world may be formally derived in an elementary fashion from the ground up In detail a model of what Finkelstein has dubbed a quantum net in conjunction with a carefully and extensively articulated correspondence principle gives rise to the standard Lagrangians for massless Dirac fermions general relativity and Yang Mills fields for the gauge groups  $U(1) \times SU(2)$  and  $SU(3)$  These Lagrangians emerge replete with Feynman gauge fixing terms and ghost fields and a chiral breaking mechanism in the case of  $SU(2)$  The results are interpreted in the light of the Standard Model

**Reality Without Realism** Arkady Plotnitsky, 2022-01-01 This book presents quantum theory as a theory based on new relationships among matter thought and experimental technology as against those previously found in physics relationships that also redefine those between mathematics and physics in quantum theory The argument of the book is based on its title concept reality without realism RWR and in the corresponding view the RWR view of quantum theory The book considers from this perspective the thinking of Bohr Heisenberg Schrödinger and Dirac with the aim of bringing together the philosophy and history of quantum theory With quantum theory the book argues the architecture of thought in theoretical physics was radically changed by the irreducible role of experimental technology in the constitution of physical phenomena accordingly no longer defined independently by matter alone as they were in classical physics or relativity Or so it appeared For quantum theory the book further argues made us realize that experimental technology beginning with that of our bodies irreducibly shapes all physical phenomena and thus makes us rethink the relationships among matter thought and technology in all of physics

**Concept and Formalization of Constellatory Self-Unfolding** Albrecht von Müller, Elias

Zafiris,2018-05-29 This volume offers a fundamentally different way of conceptualizing time and reality Today we see time predominantly as the linear sequential order of events and reality accordingly as consisting of facts that can be ordered along sequential time But what if this conceptualization has us mistaking the exhausts for the real thing i e if we miss the best the actual taking place of reality as it occurs in a very differently structured primordial form of time the time space of the present In this new conceptual framework both the sequential aspect of time and the factual aspect of reality are emergent phenomena that come into being only after reality has actually taken place In the new view facts are just the traces that the actual taking place of reality leaves behind on the co emergent canvas of local spacetime Local spacetime itself emerges only as facts come into being and only facts can be adequately localized in it But how does reality then actually occur It is conceived as a constellatory self unfolding characterized by strong self referentiality and taking place in the primordial form of time the not yet sequentially structured time space of the present Time is seen here as an ontophanetic platform i e as the stage on which reality can first occur This view of time and thus also space seems to be very much in accordance with what we encounter in quantum physics before the so called collapse of the wave function In parallel classical and relativistic physics largely operate within the factual portrait of reality and the sequential aspect of time respectively Only singularities constitute an important exemption here the canvas of local spacetime that emerged together with factization melts down again In the novel framework quantum reduction and singularities can be seen and addressed as inverse transitions In quantum physical state reduction reality gains the chrono ontological format of facticity and the sequential aspect of time becomes applicable In singularities by contrast the inverse happens Reality loses its local spacetime formation and reverts back into its primordial pre local shape making in this way the use of causality relations Boolean logic and the dichotomization of subject and object obsolete For our understanding of the relation between quantum and relativistic physics this new view opens up fundamentally new perspectives Both are legitimate views of time and reality they just address very different chrono ontological portraits and thus should not lead us to erroneously subjugating one view under the other The task of the book is to provide a formal framework in which this radically different view of time and reality can be addressed properly The mathematical approach is based on the logical and topological features of the Borromean Rings It draws upon concepts and methods of algebraic and geometric topology especially the theory of sheaves and links group theory logic and information theory in relation to the standard constructions employed in quantum mechanics and general relativity shedding new light on the pestilential problems of their compatibility The intended audience includes physicists mathematicians and philosophers with an interest in the conceptual and mathematical foundations of modern physics

Beyond Quantum Andrei Khrennikov,2014-04-10 The present wave of interest in quantum foundations is caused by the tremendous development of quantum information science and its applications to quantum computing and quantum communication It has become clear that some of the difficulties encountered in realizations of quantum information

processing have roots at the very fundamental level To solve such problems quantum theory has to be reconsidered This book is devoted to the analysis of the probabilistic structure of quantum theory probing the limits of classical probabilistic representation of quantum phenomena     **Topics in the Foundations of Quantum Theory and Relativity** Hans

Westman,2004     *Contextual Reinterpretation of Quantum Nonlocality* Andrei Khrennikov,2024-12-05 The quantum information revolution has had a huge impact not only on quantum technologies including quantum computing and cryptography but also on the foundations of quantum mechanics This book presents the information viewpoint on the foundations of quantum physics by highlighting the role of complementarity and contextuality and coupling the ideas of the fathers of quantum mechanics Bohr and Einstein with the modern quantum information framework The classical quantum dilemma is resolved through an appeal to the Bild conception of scientific theories established in the 19th century by Hertz and Boltzmann Bell inequalities are treated from the complementarity contextuality viewpoint supporting the attempts to discard nonlocality from quantum physics Philosophical aspects of the topic are explored from a physicist s perspective balancing accessibility with scientific rigour This unique approach to quantum foundations will be of interest to graduates Ph D students and researchers in fields ranging from quantum information to philosophy     Unification of Quantum Mechanics with the Relativity Theory, Based on Discrete Conservations of Energy and Gravity Aghaddin Mamedov,2015 Unification of Quantum Mechanics with the Relativity Theory Based on Discrete Conservations of Energy and Gravity     Quanto-Geometry Joseph J. Jean-Claude,2015-01-26 Quanto Geometric Theory is a new modern physics theoretical model aimed at the interpretation of physical matter beyond Quantum Mechanics and General Relativity In a surprising turn it affords a natural and simple path to the long sought effective unification of Quantum Mechanics and General Relativity In doing so the Theory stunningly derives the fundamental Quantum parameters and gravity from one single mathematical formalism Furthermore Quanto Geometry stands for the first and only Theory able to deliver on a long time elusive goal of modern physics the computation from first principles of the host of known fundamental physical constants both dimension less and dimensional By eliciting the conceptual and philosophical implications of the mathematics governing the hierarchy of universal physical constants Quanto Geometric Theory proposes a novel vision and true insight into the essential structure of matter and organization of life Its impact therefore promises to outgrow the world of academic physics to positively alter human consciousness and consequently our relationship with our living medium otherwise called matter This book addresses academicians as well as the avid amateur physicists who will all find refreshing enjoyment in witnessing the unraveling of a handful of physics conundrums of all time in a clear simple but effective and unequivocal manner In the tradition of non speculative effective and falsifiable physics



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