

Structure and Approximation in Physical Theories

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Structure Approximation In Physical Theories

Günther Ludwig, Gerald Thurler



Structure Approximation In Physical Theories:

Structure and Approximation in Physical Theories A. Hartkamper, 2013-11-11 The present volume contains 14 contributions presented at a colloquium on Structure and Approximation in Physical Theories held at Osnabruck in June 1980. The articles are presented in the revised form written after the colloquium and hence also take account of the results of the discussion at the colloquium. It is a striking feature that the problem of approximation in physical theories has only recently found some attention in the philosophy of science although the working physicist is constantly confronted with those questions. No interesting theory of exact science exactly fits its experimental data almost every relation between different theories is an approximate one. Therefore an adequate reconstruction of physical theories must take into account and conceptualize the moment of approximation. The majority of the articles in this book is centered around this subject. There are at least two elaborate structuralistic approaches to the formalization of physical theories in which the aspect of approximation has been incorporated: the approach due to P. Suppes, J. Sneed, W. Stegmüller, S. approach and the approach of G. Ludwig and his co-workers, L. approach. The articles in this book correspondingly fall into three classes: presentation, elaboration and critique of the L. approach (Hartkamper, Schmidt, Ludwig, Neumann, Werner, Schmidt, Mayr, Kamiah, Majer, Grafe) or of the S. approach (Moulines, Balzer, Cooke) and articles referring to both approaches or concerned with related matters (Scheibe, Pfarr, Castiglione). Of course this is only a rough classification and each article must be appraised in its own right.

A New Foundation of Physical Theories Günther Ludwig, Gerald Thurler, 2007-12-11 Written in the tradition of G. Ludwig's groundbreaking works this book aims to clarify and formulate more precisely the fundamental ideas of physical theories. By introducing a basic descriptive language of simple form in which it is possible to formulate recorded facts ambiguities of physical theories are avoided as much as possible. In this approach the field of physics that should be described by a theory is determined by basic concepts only, i.e. concepts that can be explained without a theory. In this context the authors introduce a new concept of idealization and review the process of discovering new concepts. They believe that when the theories are formulated within an axiomatic basis solutions can be found to many difficult problems such as the interpretation of physical theories, the relations between theories as well as the introduction of physical concepts. The book addresses both physicists and philosophers of science and should encourage the reader to contribute to the understanding of the lasting core of physical knowledge about the real structures of the world.

The Reduction of Physical Theories Erhard Scheibe, 2022-06-30 Using simple physical examples this work by Erhard Scheibe presents an important and powerful approach to the reduction of physical theories. Novel to the approach is that it is not based as usual on a single reduction concept that is fixed once and for all but on a series of recursively constructed reductions with which all reductions appear as combinations of very specific elementary reductions. This leaves the general notion of theory reduction initially open and is beneficial for the treatment of the difficult cases of reduction from the fields of special and general relativity, thermodynamics

statistical mechanics and quantum mechanics which are treated in the second volume The book is systematically organized and intended for readers interested in philosophy of science as well as physicists without deep philosophical knowledge A

General Theory of Entropy Kofi Kissi Dompere, 2019-08-02 This book presents an epistemic framework for dealing with information knowledge and certainty uncertainty problems within the space of quality quantity dualities It bridges between theoretical concepts of entropy and entropy measurements proposing the concept and measurement of fuzzy stochastic entropy that is applicable to all areas of knowing under human cognitive limitations over the epistemological space The book builds on two previous monographs by the same author concerning theories of info statics and info dynamics to deal with identification and transformation problems respectively The theoretical framework is developed by using the toolboxes such as those of the principle of opposites systems of actual potential polarities and negative positive dualities under different cost benefit time structures The category theory and the fuzzy paradigm of thought under methodological constructionism reductionism duality are used in the fuzzy stochastic and cost benefit spaces to point to directions of global application in knowing knowledge and decision choice actions Thus the book is concerned with a general theory of entropy showing how the fuzzy paradigm of thought is developed to deal with the problems of qualitative quantitative uncertainties over the fuzzy stochastic space which will be applicable to conditions of soft hard data fact evidence and knowledge over the spaces of problem solution dualities decision choice actions in sciences non sciences engineering and planning sciences to abstract acceptable information knowledge elements

The Theory of Info-Statics: Conceptual Foundations of Information and Knowledge Kofi K. Dompere, 2017-07-06 This book discusses the development of a theory of info statics as a sub theory of the general theory of information It describes the factors required to establish a definition of the concept of information that fixes the applicable boundaries of the phenomenon of information its linguistic structure and scientific applications The book establishes the definitional foundations of information and how the concepts of uncertainty data fact evidence and evidential things are sequential derivatives of information as the primary category which is a property of matter and energy The sub definitions are extended to include the concepts of possibility probability expectation anticipation surprise discounting forecasting prediction and the nature of past present future information structures It shows that the factors required to define the concept of information are those that allow differences and similarities to be established among universal objects over the ontological and epistemological spaces in terms of varieties and identities These factors are characteristic and signal dispositions on the basis of which general definitional foundations are developed to construct the general information definition GID The book then demonstrates that this definition is applicable to all types of information over the ontological and epistemological spaces It also defines the concepts of uncertainty data fact evidence and knowledge based on the GID Lastly it uses set theoretic analytics to enhance the definitional foundations and shows the value of the theory of info statics to establish varieties and categorial varieties at every point of time and thus initializes the construct of the theory of info

dynamics **The Theory of Epistemic Fields** Kofi Kissi Dompere, 2024-08-13 The book is about the development of the theory of epistemic fields with the corresponding relational and information fields as a framework for the understanding of strategies and tactics of the theory of knowing as the production of intellectual investment flows and the theory of knowledge accumulation as the production of intellectual capital stocks in systems of factories and departments providing the foundations for the development of open algorithms in the open space of problem solution dualities The concepts and the roles of thinking and reasoning with curiosity creativity hope Ill posed problems phantom problems unsolved problems misinformation disinformation fake news and courage are introduced defined and analyzed on the cognitive journeys over the space of ignorance knowledge dualities where dualistic polar conflicts between duals in the space of ignorance knowledge dualities are resolved with the instruments of fuzzy optimization the results of which are used to induced the zones of ignorance the zones of knowledge and the zones of contentions A complete development of the set of connecting paths of spaces and sub spaces is provided where all varieties categories and spaces reside in dualistic polar structures with knowledge stock viewed as a single tree with the same roots one trunk many branches and a fruit cocktail The ontological space contains the space of actual potential dualities as the primary category of knowing and the epistemological space contains the space of imagination reality dualities as the derived category of knowing within the space of primary derived dualities The space of potentials contains the space of imaginations which contains the sub spaces of possibility impossibility probability improbability and possibility probability dualities with corresponding spaces of necessity freedom and anticipation expectation dualities leading to the conception of the possible world impossible world dualities in the space of semantic non semantic dualities This book is also a continuation of the sequence of my works on the theories of paradigms of thought rationality info statics info dynamics entropy problem solution dualities in self contained mathematics and philosophy and their relational connectivity to information language knowing knowledge cognitive practices and open machine learning relative to nominalism and the space of construction reduction dualities over the spaces of fundamental applied production consumption input output and cost benefit dualities **Logic, Methodology and Philosophy of Science VIII** J.E.

Fenstad, I.T. Frolov, R. Hilpinen, 1989-08-16 Logic Methodology and Philosophy of Science VIII presents the results of recent research into the foundations of science The volume contains 37 invited papers presented at the Congress covering the areas of Logic Mathematics Physical Sciences Biological Sciences and the Humanities *The Philosophy Behind Physics* Thomas

A. Brody, 2012-12-06 Thomas Brody had one of the most powerful and wide ranging intellects of his generation Although primarily a physicist who worked on statistical problems in nuclear physics on probability theory and on computational physics he had an extensive knowledge of the philosophy of science and of philosophy and was fluent in many languages He is well known among physicists for the Brody Moshinsky transformation but his extensive work on probability and on the philosophy of science remained almost unknown This was because the originality of his ideas entailed many lengthy battles

with uncomprehending referees and he frequently published in Mexican journals of limited circulation. In addition his strongly critical spirit inhibited his willingness to publish his ideas. He was always most concerned by the very unsatisfactory situation in the philosophy of physics that is largely due to the generally poor knowledge that physicists and philosophers have of each other's disciplines. Philosophers of science write at length about physics without any detailed first-hand knowledge of how research is actually carried out. Physicists for their part often implicitly assume naive or erroneous philosophical ideas and this often hinders their scientific work besides spreading further confusion if they try to give an account of what they are doing. Methodology, Epistemology, and Philosophy of Science Carl G. Hempel, H. Putnam, Wilhelm K.

Essler, 2013-03-09 *Idealization VII: Structuralism, Idealization and Approximation*, 2023-03-13 **The Theory of Info-Dynamics: Rational Foundations of Information-Knowledge Dynamics** Kofi K. Dompere, 2017-12-06 This book focuses on the development of a theory of info dynamics to support the theory of info statics in the general theory of information. It establishes the rational foundations of information dynamics and how these foundations relate to the general socio natural dynamics from the primary to the derived categories in the universal existence and from the potential to the actual in the ontological space. It also shows how these foundations relate to the general socio natural dynamics from the potential to the possible to give rise to the possibility space with possibilistic thinking from the possible to the probable to give rise to possibility space with probabilistic thinking and from the probable to the actual to give rise to the space of knowledge with paradigms of thought in the epistemological space. The theory is developed to explain the general dynamics through various transformations in quality quantity space in relation to the nature of information flows at each variety transformation. The theory explains the past present future connectivity of the evolving information structure in a manner that illuminates the transformation problem and its solution in the never ending information production within matter energy space under socio natural technologies to connect the theory of info statics which in turn presents explanations to the transformation problem and its solution. The theoretical framework is developed with analytical tools based on the principle of opposites systems of actual potential polarities negative positive dualities under different time structures with the use of category theory fuzzy paradigm of thought and game theory in the fuzzy stochastic cost benefit space. The rational foundations are enhanced with categorial analytics. The value of the theory of info dynamics is demonstrated in the explanatory and prescriptive structures of the transformations of varieties and categorial varieties at each point of time and over time from parent offspring sequences. It constitutes a general explanation of dynamics of information knowledge production through info processes and info processors induced by a socio natural infinite set of technologies in the construction destruction space. *The Theory of the Knowledge Square: The Fuzzy Rational Foundations of the Knowledge-Production Systems* Kofi Kissi Dompere, 2012-08-28 The monograph is about a meta theory of knowledge production process and the logical pathway that connects the epistemic possibility to the epistemic reality. It examines the

general conditions of paradigms for information processing and isolates the classical and fuzzy paradigms for comparative analysis. The sets of conditions that give rise to them are defined, stated, and analyzed to abstract the corresponding sets of laws of thought. The fuzzy paradigm with its corresponding logic and mathematics is related to inexact symbolism for the defective information structure where the results of the knowledge production must satisfy the epistemic conditionality composed of fuzzy conditionality and fuzzy stochastic conditionality under the principle of logical duality with continuum. The classical paradigm with its corresponding logic and mathematics is related to exact symbolism for exact information structure where the vagueness component of the defectiveness is assumed away and where the results of the knowledge production must satisfy no epistemic conditionality or at the maximum only the stochastic conditionality under the principle of logical dualism with excluded middle. It is argued that the epistemic path that links ontological space to the epistemological space is information. The ontological space is taken as the primary category of reality while the epistemological space is shown to be a derivative. Such information is universally defective and together with assumptions imposed guides the development of paradigms with their laws of thought, logic of reasoning, mathematics, and computational techniques. The relational structure is seen in terms of logical trinity with a given example as matter, information, energy transformational trinity which is supported by the time trinity of past, present, future relationality. The book is written for professionals, researchers, and students working in philosophy of science, decision choice theories, economics, sciences, computer science, engineering, cognitive psychology, and researchers working on or interested in fuzzy paradigm, fuzzy logic, fuzzy decisions, and phenomena of vagueness and ambiguities, fuzzy mathematics, fuzzy stochastic processes, and theory of knowledge. It is further aimed at research institutions and libraries. The subject matter belongs to extensive research and development taking place on fuzzy phenomena and the debate between the fuzzy paradigm and the classical paradigm relative to informatics, synergetic science, and complexity theory. The book will have a global appeal and across disciplines. Its strength besides the contents is the special effort that is undertaken to make it relevant and accessible to different areas of sciences and knowledge production.

Epistemology, Methodology, and Philosophy of Science Wilhelm K. Essler, H. Putnam, W. Stegmüller, 2013-06-29

Professor C. G. Hempel known to a host of admirers and friends as Peter Hempel is one of the most esteemed and best loved philosophers in the If an Empiricist Saint were not somewhat of a Meinongian Impos world. Object one might describe Peter Hempel as an Empiricist Saint. In deed he is as admired for his brilliance, intellectual flexibility and creativity as he is for his warmth, kindness and integrity and does not the presence of so many wonderful qualities in one human being assume the dimensions of an impossibility. But Peter Hempel is not only possible but actual. One of us Hilary Putnam remembers vividly the occasion on which he first witnessed Hempel in action. It was 1950 and Quine had begun to attack the analytic synthetic distinction, a distinction which Carnap and Reichenbach had made a cornerstone if not the keystone of Logical Empiricist philosophy. Hempel who is as quick to accept any idea that seems to contain real

substance and insight as he is to demolish ideas that are empty or confused was one of the first leading philosophers outside of Quine's immediate circle to join Quine in his attack. Hempel had come to Los Angeles where Reichenbach taught on a visit and a small group consisting of Reichenbach and a few of his graduate students were gathered together in Reichenbach's home to hear Hempel defend the new position.

Recent Advances in the Theory of Chemical and Physical Systems

Jean-Pierre Julien, Jean Maruani, Didier Mayou, Gerard Delgado-Barrio, 2006-05-05 Advances in the Theory of Chemical and Physical Systems is a collection of 26 selected papers from the scientific presentations made at the 9th European Workshop on Quantum Systems in Chemistry and Physics QSCP IX held at Les Houches France in September 2004. This volume encompasses a spectrum of developing topics in which scientists place special emphasis on theoretical methods in the study of chemical and physical properties of various systems: Quantum Chemical Methods including CC and DFT for excited states; Relativistic and Heavy Element Systems including radiative and nuclear effects; Complexes and Clusters including metal complexes and clusters; Complex Systems including quasicrystals, nanotubes and proteins.

Theory of Categorical Conversion Kofi Kissi Dompere, 2017-02-16 The Theory of Categorical Conversion is advanced by Professor Kofi Kissi Dompere as mathematical, philosophical and game theoretic foundations to solve the problem of socio-natural transformation as governed by some internal process in relation to Marx, Schumpeter and Nkrumah. Dompere's methodology is based on the Africentric principles of opposites made up of actual potential polarity, negative positive duality with relational continuum and unity under cost-benefit rationality and Asantefi Anoma principle supported by fuzzy paradigm of thought. Socio-natural transformations are seen in terms of game theories in a fuzzy stochastic space admitting of defective deceptive information structures in quality-quantity space within the subjective-objective duality. The main premise of the monograph is that there exists a set of necessary and sufficient conditions for internal self-transformation. The necessary conditions are made up of categorical moments and categorical transfer functions forming the domain of control instrumentation in creating the sufficient conditions for categorical conversion processes. Dompere presents an important methodological framework for the study and construction of the theories of socioeconomic development and political change as well as info-dynamics connecting knowledge, sciences, innovation and engineering to the space of knowing under qualitative-quantitative transformational dynamics with defective deceptive information structures in the games for power and dominance by duals and poles in conflicts. The necessary conditions of socio-natural transformation are internally derived based on the relational structure of matter-energy-information activities within the dynamics of qualitative dispositions of dualities of actual potential polarities. The theory consists of category formation showing ontological epistemological categories and categorical dynamics shows elemental conversions of categorical varieties in a continuum. The logical tools and the paradigm of thought for the theoretical development of Nkrumah's framework involve self-excitement, self-correction and self-control systems induced by internal contradictions. The set of necessary conditions constitutes the natural necessity that constrains cognitive freedom in socio-

natural transformations Had this conceptual system been familiar to economists and social scientists the construct of the theories of socioeconomic development and transformations would have been increasingly successful *The Theory of Problem-Solution Dualities and Polarities* Kofi Kissi Dompere, 2022-04-25 This book is concerned with the development of the understanding of the relational structures of information knowledge decision choice processes of problems and solutions in the theory and practice regarding diversity and unity principles of knowing science non science and information knowledge systems through dualistic polar conditions of variety existence and nonexistence It is a continuation of the sequence of my epistemic works on the theories on fuzzy rationality info statics info dynamics entropy and their relational connectivity to information language knowing knowledge cognitive practices relative to variety identification problem solution dualities variety transformation problem solution dualities and variety certainty uncertainty principle in all areas of knowing and human actions regarding general social transformations It is also an economic theoretic approach in understanding the diversity and unity of knowing and science through neuro decision choice actions over the space of problem solution dualities and polarities The problem solution dualities are argued to connect all areas of knowing including science and non science social science and non social science into unity with diversities under neuro decision choice actions to support human existence and nonexistence over the space of static dynamic dualities The concepts of diversity and unity are defined and explicated to connect to the tactics and strategies of decision choice actions over the space of problem solution dualities The concepts of problem and solution are defined and explicated not in the space of absoluteness but rather in the space of relativity based on real cost benefit conditions which are shown to be connected to the general parent offspring infinite process where every solution generates new problem s which then generates a search for new solutions within the space of minimum maximum dualities in the decision choice space under the principle of non satiation over the space of preference non preference dualities with analytical tools drawn from the fuzzy paradigm of thought which connects the conditions of the principle of opposites to the conditions of neuro decision choice actions in the zone of variety identifications and transformations The Monograph would be useful to all areas of Research Learning and Teaching at Advanced Stages of Knowing and Knowledge Production **Physics, Theory, and Applications of Periodic Structures in Optics**, 2001

The Rationality of Theism Adolfo García de la Sienra, 2000 This is a controversial collection of brand new papers by some outstanding philosophers and scholars Its aim is to offer comprehensive theistic replies to the traditional arguments against the existence of God The Rationality of Theism, 2022-05-16 **Non-commutative Geometry in Mathematics and Physics** Giuseppe Dito, 2008 This volume represents the proceedings of the conference on Topics in Deformation Quantization and Non Commutative Structures held in Mexico City in September 2005 It contains survey papers and original contributions by various experts in the fields of deformation quantization and non commutative derived algebraic geometry in the interface between mathematics and physics It also contains an article based on the XI Memorial Lectures given by M

Kontsevich which were delivered as part of the conference This is an excellent introductory volume for readers interested in learning about quantization as deformation Hopf algebras and Hodge structures in the framework of non commutative algebraic geometry

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