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Conceptual Foundations of Quantum Field Theory The Philosophy of American History ...: The historical field theory **Mathematical Aspects of Quantum Field Theories** Galois Theory for Beginners: A Historical Perspective, Second Edition The Origins of Field Theory Quantum Field Theory I: Basics in Mathematics and Physics **Bordieuan Field Theory as an Instrument for Military Operational Analysis Principles of Classical Mechanics and Field Theory / Prinzipien der Klassischen Mechanik und Feldtheorie Field-theory (RLE Social Theory)** *Topics in Quantum Field Theory Topics In Quantum Field Theory: Modern Methods In Fundamental Physics* **Quantum Field Theory in a Nutshell** *Classical Field Theory* **Raum · Zeit · Materie An Introduction To Quantum Field Theory, Student Economy Edition A Philosophical Approach to Quantum Field Theory Quantum Groups, Quantum Categories and Quantum Field Theory Re-Examining the History of the Russian Economy** The Universe of General Relativity Bourdieu's Field Theory and the Social Sciences **A History of Abstract Algebra** Field Theory and Its Classical Problems *Introduction to Supersymmetric Field Theory* **Elementary Quantum Field Theory** Metaphysische Anfangsgründe der Naturwissenschaft Modern Quantum Field Theory **Quantum Field Theory, as Simply as Possible A Mathematical Introduction to Conformal Field Theory** *Euclidean Quantum Field Theory. I* The Metatheory of Physics Theories and the Theory of Everything as a Quantum Computer Language Quantum Field Theory II: Quantum Electrodynamics Lectures on Matrix Field Theory *Unified Field Theories Quantum Field Theory: Perspective and Prospective* **Primes of the Form x2+ny2** An Interpretive Introduction to Quantum Field Theory Fields and Galois Theory **Self-Field Theory Literature, Theory, History Von der Quantenfeldtheorie zum Standardmodell**

The Origins of Field Theory Jun 21 2022 Originally published by Random House in 1966, this classic work is an indepth analysis of the pioneering work of Michael Faraday. Since Faraday was the major architect of field theory, the book focuses on the evolution of his ideas and their impact on the scientific community of the nineteenth century. The concluding chapter discusses the more mathematical contribution of James Maxwell, who was instrumental in turning Faraday's heresies into the orthodoxy of classical field theory.

The Metatheory of Physics Theories and the Theory of Everything as a Quantum Computer Language Apr 26 2020 This book describes a new area of physics: the metatheory of physics theories. It develops a mathematical description of the nature of physics theories which it applies to the Theory of Everything or the Final Theory. It also develops quantum Turing machine and Quantum Computer formulations of the Standard Model of Elementary Particles and SuperString Theories.

Quantum Field Theory I: Basics in Mathematics and Physics May 20 2022 This is the first volume of a modern introduction to quantum field theory which addresses both mathematicians and physicists, at levels ranging from advanced undergraduate students to professional scientists. The book bridges the acknowledged gap between the different languages used by mathematicians and physicists. For students of mathematics the author shows that detailed knowledge of the physical background helps to motivate the mathematical subjects and to discover interesting interrelationships between quite different mathematical topics. For students of physics, fairly advanced mathematics is presented, which goes beyond the usual curriculum in physics.

Literature, Theory, History Jul 18 2019 This book discusses literature, theory and history in close relation. Its main focus is on comparative literature and history, culture, poetics, rhetoric, theatricality, genre and gender, and balances close reading with theory and historical context.

Re-Examining the History of the Russian Economy May 08 2021 This book explores the application of field theory (patterns of interaction) to Russian economic history, and how social and political fields mediate the influences of institutions, structures, discourses

and ideologies in the creation and dissemination of economic thinking, theory and practice. Using focused cases on Russia's economy from the mid-nineteenth century to the present, Hass and co-authors expand the empirical basis of field studies to provide new material on Russian economic history. The cases are divided into two complementary halves: i) The role of fields of institutions, discourses, and structures in the development of Russian economic thought, especially economic theories and discourses; and ii) The role of fields in the real adoption and implementation of policies in Soviet and Russian economic history. With developed discussion of fields and field theory, this book moves beyond sociology to demonstrate to other disciplines the relation of fields and field theory to other frameworks and methodological considerations for field analysis, as well as providing new empirical insights and narratives not as well-known abroad.

Mathematical Aspects of Quantum Field Theories Aug 23 2022 Despite its long history and stunning experimental successes, the mathematical foundation of perturbative quantum field theory is still a subject of ongoing research. This book aims at presenting some of the most recent advances in the field, and at reflecting the diversity of approaches and tools invented and currently employed. Both leading experts and comparative newcomers to the field present their latest findings, helping readers to gain a better understanding of not only quantum but also classical field theories. Though the book offers a valuable resource for mathematicians and physicists alike, the focus is more on mathematical developments. This volume consists of four parts: The first Part covers local aspects of perturbative quantum field theory, with an emphasis on the axiomatization of the algebra behind the operator product expansion. The second Part highlights Chern-Simons gauge theories, while the third examines (semi-)classical field theories. In closing, Part 4 addresses factorization homology and factorization algebras.

Primes of the Form x2+ny2 Nov 21 2019 An exciting approach to the history and mathematics of number theory ". . . the author's style is totally lucid and very easy to read . . .the result is indeed a wonderful story." —Mathematical Reviews Written in a unique and accessible style for readers of varied

mathematical backgrounds, the Second Edition of Primes of the Form $p = x2 + ny2$ details the history behind how Pierre de Fermat's work ultimately gave birth to quadratic reciprocity and the genus theory of quadratic forms. The book also illustrates how results of Euler and Gauss can be fully understood only in the context of class field theory, and in addition, explores a selection of the magnificent formulas of complex multiplication. Primes of the Form $p = x2 + ny2$, Second Edition focuses on addressing the question of when a prime p is of the form $x2 + ny2$, which serves as the basis for further discussion of various mathematical topics. This updated edition has several new notable features, including: • A well-motivated introduction to the classical formulation of class field theory • Illustrations of explicit numerical examples to demonstrate the power of basic theorems in various situations • An elementary treatment of quadratic forms and genus theory • Simultaneous treatment of elementary and advanced aspects of number theory • New coverage of the Shimura reciprocity law and a selection of recent work in an updated bibliography Primes of the Form $p = x2 + ny2$, Second Edition is both a useful reference for number theory theorists and an excellent text for undergraduate and graduate-level courses in number and Galois theory.

An Interpretive Introduction to Quantum Field Theory Oct 21 2019 Quantum mechanics is a subject that has captured the imagination of a surprisingly broad range of thinkers, including many philosophers of science. Quantum field theory, however, is a subject that has been discussed mostly by physicists. This is the first book to present quantum field theory in a manner that makes it accessible to philosophers. Because it presents a lucid view of the theory and debates that surround the theory, An Interpretive Introduction to Quantum Field Theory will interest students of physics as well as students of philosophy. Paul Teller presents the basic ideas of quantum field theory in a way that is understandable to readers who are familiar with non-relativistic quantum mechanics. He provides information about the physics of the theory without calculational detail, and he enlightens readers on how to think about the theory physically. Along the way, he dismantles some popular myths and clarifies the novel ways in which quantum field theory is both a theory about fields and about particles. His goal is to raise

questions about the philosophical implications of the theory and to offer some tentative interpretive views of his own. This provocative and thoughtful book challenges philosophers to extend their thinking beyond the realm of quantum mechanics and it challenges physicists to consider the philosophical issues that their explorations have encouraged.

Galois Theory for Beginners: A Historical Perspective, Second Edition Jul 22 2022 Galois theory is the culmination of a centuries-long search for a solution to the classical problem of solving algebraic equations by radicals. In this book, Bewersdorff follows the historical development of the theory, emphasizing concrete examples along the way. As a result, many mathematical abstractions are now seen as the natural consequence of particular investigations. Few prerequisites are needed beyond general college mathematics, since the necessary ideas and properties of groups and fields are provided as needed. Results in Galois theory are formulated first in a concrete, elementary way, then in the modern form. Each chapter begins with a simple question that gives the reader an idea of the nature and difficulty of what lies ahead. The applications of the theory to geometric constructions, including the ancient problems of squaring the circle, duplicating the cube, and trisecting the angle, and the construction of regular n n-gons are also presented. This new edition contains an additional chapter as well as twenty facsimiles of milestones of classical algebra. It is suitable for undergraduates and graduate students, as well as teachers and mathematicians seeking a historical and stimulating perspective on the field.

A History of Abstract Algebra Feb 05 2021 This book explores the history of abstract algebra. It shows how abstract algebra has arisen in attempting to solve some of these classical problems, providing a context from which the reader may gain a deeper appreciation of the mathematics involved.

Elementary Quantum Field Theory Nov 02 2020 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Quantum Field Theory II: Quantum Electrodynamics Mar 26 2020 And God said, Let there be light; and there was light. Genesis 1,3 Light is not only the basis of our biological existence, but also an essential source of our knowledge about the physical laws of nature, ranging from the seventeenth century geometrical optics up to the twentieth century theory of general relativity and quantum electrodynamics. Folklore Don't give us

numbers: give us insight! A contemporary natural scientist to a mathematician The present book is the second volume of a comprehensive introduction to themathematicalandphysicalaspectsofmodernq uantum?eldtheorywhich comprehends the following six volumes: Volume I: Basics in Mathematics and Physics Volume II: Quantum Electrodynamics Volume III: Gauge Theory Volume IV: Quantum Mathematics Volume V: The Physics of the Standard Model Volume VI: Quantum Gravitation and String Theory. It is our goal to build a bridge between mathematicians and physicists based on the challenging question about the fundamental forces in • macrocosmos (the universe) and • microcosmos (the world of elementary particles). The six volumes address a broad audience of readers, including both und-graduate and graduate students, as well as experienced scientists who want to become familiar with quantum ?eld theory, which is a fascinating topic in modern mathematics and physics.

Topics in Quantum Field Theory Jan 16 2022 *Conceptual Foundations of Quantum Field Theory* Oct 25 2022 Multi-author volume on the history and philosophy of physics.

Principles of Classical Mechanics and Field Theory / Prinzipien der Klassischen Mechanik und Feldtheorie Mar 18 2022
A Mathematical Introduction to Conformal Field Theory Jun 28 2020 The first part of this book gives a self-contained and mathematically rigorous exposition of classical conformal symmetry in n dimensions and its quantization in two dimensions. The second part surveys some more advanced topics of conformal field theory.

Bourdieu's Field Theory and the Social Sciences Mar 06 2021 Highlighting the conceptual work at the heart of Pierre Bourdieu's reflexive sociology, this cutting edge collection operationalizes Bourdieusian concepts in field analysis. Offering a unique range of explorations and reflections utilizing field analysis, the eighteen chapters by prominent Bourdieusian scholars and early career scholars synthesize key insights and challenges scholars face when going 'beyond the fields we know'. The chapters offer examples from discipline contexts as diverse as cultural studies, poetry, welfare systems, water management, education, journalism and surfing and provide demonstrations of theorizing within practical examples of field analysis. One of the foremost social philosophers and sociologists of the twentieth century, Bourdieu is widely known in cultural studies and education and his approaches are increasingly being taken up in health, social work, anthropology, family studies, journalism, communication studies and other disciplines where an analysis of the interplay between individuals and social structures is relevant. With its unique interdisciplinary focus, this book provides a useful guide to doing field analysis and working with Bourdieusian methods research, as well as key reading for methodology courses at post-graduate level.

Field Theory and Its Classical Problems Jan 04 2021 Field Theory and its Classical Problems lets Galois theory unfold in a natural way, beginning with the geometric construction problems of antiquity, continuing through the

construction of regular n-gons and the properties of roots of unity, and then on to the solvability of polynomial equations by radicals and beyond. The logical pathway is historic, but the terminology is consistent with modern treatments. No previous knowledge of algebra is assumed. Notable topics treated along this route include the transcendence of e and π , cyclotomic polynomials, polynomials over the integers, Hilbert's irreducibility theorem, and many other gems in classical mathematics. Historical and bibliographical notes complement the text, and complete solutions are provided to all problems.

Topics In Quantum Field Theory: Modern Methods In Fundamental Physics Dec 15 2021 This book constitutes the proceedings of a meeting which brought together contributors from the four European networks in the area of the theory of fundamental interactions. While each of these networks overlaps strongly with all the others, this coming together gives the proceedings a greater than usual breadth of subjects nevertheless. The wide range of topics in quantum field theory covered includes Hamiltonian and semiclassical methods, critical phenomena and various aspects of classical and quantum gravity including also a study in the detection of gravitational radiation. This, together with the leading item on the recent history of the subject, gives an overall perspective of the many new research directions in this area.

Field-theory (RLE Social Theory) Feb 17 2022 This is an important account of the development of the 'field-theory' approach in the social sciences. Harald Mey concentrates on the writers from the 1930s to the present day who have used this approach to the study of the individual and of society, and gives a clear exposition of such 'field-theory' application in its many differing forms. In addition, the author shows how a concept which was initially useful in the physical sciences came to be used first by psychologists, and subsequently by sociologists and others in related disciplines, in their search for answers to the problems presented by the study of society. Mey describes how the use of the 'field-theory' perspective has fared when applied to specific areas of social research – education, personal relationships, group behaviour. He also compares the 'field-theory' approach to the study of societies with the structural/functional approach, and explains why he believes 'field-theory' has a number of advantages over the structural/functional approach, especially when it comes to the dynamic problem of social change.

Quantum Field Theory in a Nutshell Nov 14 2021 A fully updated edition of the classic text by acclaimed physicist A. Zee Since it was first published, Quantum Field Theory in a Nutshell has quickly established itself as the most accessible and comprehensive introduction to this profound and deeply fascinating area of theoretical physics. Now in this fully revised and expanded edition, A. Zee covers the latest advances while providing a solid conceptual foundation for students to build on, making this the most up-to-date and modern textbook on quantum field theory available. This expanded edition features several additional chapters, as well as an entirely new section describing recent developments in quantum field theory

such as gravitational waves, the helicity spinor formalism, on-shell gluon scattering, recursion relations for amplitudes with complex momenta, and the hidden connection between Yang-Mills theory and Einstein gravity. Zee also provides added exercises, explanations, and examples, as well as detailed appendices, solutions to selected exercises, and suggestions for further reading. The most accessible and comprehensive introductory textbook available Features a fully revised, updated, and expanded text Covers the latest exciting advances in the field Includes new exercises Offers a one-of-a-kind resource for students and researchers Leading universities that have adopted this book include: Arizona State University Boston University Brandeis University Brown University California Institute of Technology Carnegie Mellon College of William & Mary Cornell Harvard University Massachusetts Institute of Technology Northwestern University Ohio State University Princeton University Purdue University - Main Campus Rensselaer Polytechnic Institute Rutgers University - New Brunswick Stanford University University of California - Berkeley University of Central Florida University of Chicago University of Michigan University of Montreal University of Notre Dame Vanderbilt University Virginia Tech University

Unified Field Theories Jan 24 2020 Despite the rapidly expanding ambit of physical research and the continual appearance of new branches of physics, the main thrust in its development was and is the attempt at a theoretical synthesis of the entire body of physical knowledge. The main triumphs in physical science were, as a rule, associ ated with the various phases of this synthesis. The most radical expression of this tendency is the program of construction of a unified physical theory. After Maxwellian electrodynamics had unified the phenomena of electricity, magnetism, and optics in a single theoretical scheme on the basis of the con cept of the electromagnetic field, the hope arose that the field concept would become the precise foundation of a new unified theory of the physical world. The limitations of an electromagnetic-field conception of physics, however, already had become clear in the first decade of the 20th century. The concept of a classical field was developed significantly in the general theory of relativity, which arose in the elaboration of a relativistic theory of gravitation. It was found that the gravitational field possesses, in addition to the properties inherent in the electromagnetic field, the important feature that it expresses the metric structure of the space-time continuum. This resulted in the following generalization of the program of a field synthesis of physics: The unified field representing gravitation and electromagnetism must also describe the geometry of space-time.

Quantum Field Theory: Perspective and Prospective Dec 23 2019 It has been said that `String theorists talk to string theorists and everyone else wonders what they are saying'. This book will be a great help to those researchers who are challenged by modern quantum field theory. Quantum field theory experienced a renaissance in the late 1960s. Here, participants in the Les Houches sessions of 1970/75, now key players in quantum field

theory and its many impacts, assess developments in their field of interest and provide guidance to young researchers challenged by these developments, but overwhelmed by their complexities. The book is not a textbook on string theory, rather it is a complement to Polchinski's book on string theory. It is a survey of current problems which have their origin in quantum field theory.

Introduction to Supersymmetric Field Theory Dec 03 2020 Ideas and Methods of Supersymmetry and Supergravity: Or a Walk Through Superspace provides a comprehensive, detailed, and self-contained account of four dimensional simple supersymmetry and supergravity. Throughout the book, the authors cultivate their material in detail with calculations and full discussions of the fundamental ideas and motivations. They develop the subject in its superfield formulations but where appropriate for illustration, analogy, and comparison with conventional field theory, they use the component formulation. The book discusses many subjects that, until now, can only be found in the research literature. In addition, it presents a plethora of new results. Combining classical and quantum field theory with group theory, differential geometry, and algebra, the book begins with a solid mathematical background that is used in the rest of the book. The next chapter covers algebraic aspects of supersymmetry and the concepts of superspace and superfield. In the following chapters, the book presents classical and quantum superfield theory and the superfield formulation of supergravity. A synthesis of results and methods developed in the book, the final chapter concludes with the theory of effective action in curved superspaces. After studying this book, readers should be well prepared to pursue independent research in any area of supersymmetry and supergravity. It will be an indispensable source of reference for advanced graduate students, postdoctoral faculty, and researchers involved in quantum field theory, high energy physics, gravity theory, mathematical physics, and applied mathematics.

Lectures on Matrix Field Theory Feb 23 2020 These lecture notes provide a systematic introduction to matrix models of quantum field theories with non-commutative and fuzzy geometries. The book initially focuses on the matrix formulation of non-commutative and fuzzy spaces, followed by a description of the non-perturbative treatment of the corresponding field theories. As an example, the phase structure of non-commutative phi-four theory is treated in great detail, with a separate chapter on the multitrace approach. The last chapter offers a general introduction to non-commutative gauge theories, while two appendices round out the text. Primarily written as a self-study guide for postgraduate students – with the aim of pedagogically introducing them to key analytical and numerical tools, as well as useful physical models in applications – these lecture notes will also benefit experienced researchers by providing a reference guide to the fundamentals of non-commutative field theory with an emphasis on matrix models and fuzzy geometries.

Modern Quantum Field Theory Aug 31 2020

Presenting a variety of topics that are only briefly touched on in other texts, this book provides a thorough introduction to the techniques of field theory. Covering Feynman diagrams and path integrals, the author emphasizes the path integral approach, the Wilsonian approach to renormalization, and the physics of non-abelian gauge theory. It provides a thorough treatment of quark confinement and chiral symmetry breaking, topics not usually covered in other texts at this level. The Standard Model of particle physics is discussed in detail. Connections with condensed matter physics are explored, and there is a brief, but detailed, treatment of non-perturbative semi-classical methods. Ideal for graduate students in high energy physics and condensed matter physics, the book contains many problems,which help students practise the key techniques of quantum field theory.

Classical Field Theory Oct 13 2021 Scheck's successful textbook presents a comprehensive treatment, ideally suited for a one-semester course. The textbook describes Maxwell's equations first in their integral, directly testable form, then moves on to their local formulation. The first two chapters cover all essential properties of Maxwell's equations, including their symmetries and their covariance in a modern notation. Chapter 3 is devoted to Maxwell's theory as a classical field theory and to solutions of the wave equation. Chapter 4 deals with important applications of Maxwell's theory. It includes topical subjects such as metamaterials with negative refraction index and solutions of Helmholtz' equation in paraxial approximation relevant for the description of laser beams. Chapter 5 describes non-Abelian gauge theories from a classical, geometric point of view, in analogy to Maxwell's theory as a prototype, and culminates in an application to the U(2) theory relevant for electroweak interactions. The last chapter 6 gives a concise summary of semi-Riemannian geometry as the framework for the classical field theory of gravitation. The chapter concludes with a discussion of the Schwarzschild solution of Einstein's equations and the classical tests of general relativity. The new concept of this edition presents the content divided into two tracks: the fast track for master's students, providing the essentials, and the intensive track for all wanting to get in depth knowledge of the field. Cleary labeled material and sections guide students through the preferred level of treatment. Numerous problems and worked examples will provide successful access to Classical Field Theory.

An Introduction To Quantum Field Theory, Student Economy Edition Aug 11 2021 An Introduction to Quantum Field Theory is a textbook intended for the graduate physics course covering relativistic quantum mechanics, quantum electrodynamics, and Feynman diagrams. The authors make these subjects accessible through carefully worked examples illustrating the technical aspects of the subject, and intuitive explanations of what is going on behind the mathematics. After presenting the basics of quantum electrodynamics, the authors discuss the theory of renormalization and its relation to statistical mechanics, and introduce the renormalization group. This discussion sets the stage for a discussion of the physical principles that

underlie the fundamental interactions of elementary particle physics and their description by gauge field theories.

Raum · Zeit · Materie Sep 12 2021 Dieser Buchtitel ist Teil des Digitalisierungsprojekts Springer Book Archives mit Publikationen, die seit den Anfängen des Verlags von 1842 erschienen sind. Der Verlag stellt mit diesem Archiv Quellen für die historische wie auch die disziplingeschichtliche Forschung zur Verfügung, die jeweils im historischen Kontext betrachtet werden müssen. Dieser Titel erschien in der Zeit vor 1945 und wird daher in seiner zeittypischen politisch-ideologischen Ausrichtung vom Verlag nicht beworben.

A Philosophical Approach to Quantum Field Theory Jul 10 2021 This text presents an intuitive and robust mathematical image of fundamental particle physics based on a novel approach to quantum field theory, which is guided by four carefully motivated metaphysical postulates. In particular, the book explores a dissipative approach to quantum field theory, which is illustrated for scalar field theory and quantum electrodynamics, and proposes an attractive explanation of the Planck scale in quantum gravity. Offering a radically new perspective on this topic, the book focuses on the conceptual foundations of quantum field theory and ontological questions. It also suggests a new stochastic simulation technique in quantum field theory which is complementary to existing ones. Encouraging rigor in a field containing many mathematical subtleties and pitfalls this text is a helpful companion for students of physics and philosophers interested in quantum field theory, and it allows readers to gain an intuitive rather than a formal understanding.

Fields and Galois Theory Sep 19 2019 A modern and student-friendly introduction to this popular subject: it takes a more "natural" approach and develops the theory at a gentle pace with an emphasis on clear explanations Features plenty of worked examples and exercises, complete with full solutions, to encourage independent study Previous books by Howie in the SUMS series have attracted excellent reviews

Quantum Groups, Quantum Categories and Quantum Field Theory Jun 09 2021 This book reviews recent results on low-dimensional quantum field theories and their connection with quantum group theory and the theory of braided, balanced tensor categories. It presents detailed, mathematically precise introductions to these subjects and then continues with new results. Among the main results are a detailed analysis of the representation theory of U (sl), for q a primitive root of unity, and a semi-simple quotient thereof, a classfication of braided tensor categories generated by an object of q-dimension less than two, and an application of these results to the theory of sectors in algebraic quantum field theory. This

clarifies the notion of "quantized symmetries" in quantum fieldtheory. The reader is expected to be familiar with basic notions and resultsin algebra. The book is intended for research mathematicians, mathematical physicists and graduate students.

Metaphysische Anfangsgründe der Naturwissenschaft Oct 01 2020

Von der Quantenfeldtheorie zum Standardmodell Jun 16 2019 Die heute bekannten fundamentalen Bausteine der Materie, die Quarks und Leptonen, und die starken, schwachen und elektromagnetischen Wechselwirkungen zwischen ihnen werden außerordentlich erfolgreich durch das Standardmodell der Teilchenphysik beschrieben. Dieses Lehrbuch führt in die Quantenfeldtheorie als theoretische Basis des Standardmodells und in die Grundlagen des Standardmodells ein. Die Stoffauswahl orientiert sich an den Inhalten einer zweisemestrigen Vorlesung im Master-Studium. Die Quantisierung von Feldern wird schwerpunktmäßig im Pfadintegral-Formalismus behandelt.

Bordieuan Field Theory as an Instrument for Military Operational Analysis Apr 19 2022 This book is open access under a CC BY 4.0 license. This book uses Pierre Bourdieu's field theory as a lens through which to examine military operations. Novel in its approach, this innovative text provides a better, more nuanced understanding of the modern 'battlespace', particularly in instances of prolonged low-intensity conflict. Formed in two parts, this book primarily explores the scope of Bourdien theory before secondly providing a detailed case study of the Yugoslavian succession war of 1990-1992. Gunneriusson suggests that although theories do not necessarily provide answers, they do help us ask better questions. This volume suggests news lines of interdisciplinary investigation that will be of interest to members of armed forces, practitioners from NGOs, and policymakers.

The Philosophy of American History ...: The historical field theory Sep 24 2022

Self-Field Theory Aug 19 2019 This is the first text to be written on the topic of Self-Field Theory (SFT), a new mathematical description of physics distinct from quantum field theory, the physical theory of choice by physicists at the present time. SFT is a recent development that has evolved from the classical electromagnetics of the electron's self-fields that were studied by Abraham and Lorentz in 1903-04. Due to its bi-spinorial motions for particles and fields that obviate uncertainty, SFT is capable of obtaining closed-form solution for all atomic structures rather than the probabilistic solutions of QFT.

Quantum Field Theory, as Simply as Possible Jul 30 2020 An exceptionally accessible introduction to quantum field theory

Quantum field theory is by far the most spectacularly successful theory in physics, but also one of the most mystifying. Quantum Field Theory, as Simply as Possible provides an essential primer on the subject, giving readers the conceptual foundations they need to wrap their heads around one of the most important yet baffling subjects in physics. Quantum field theory grew out of quantum mechanics in the late 1930s and was developed by a generation of brilliant young theorists, including Julian Schwinger and Richard Feynman. Their predictions were experimentally verified to an astounding accuracy unmatched by the rest of physics. Quantum field theory unifies quantum mechanics and special relativity, thus providing the framework for understanding the quantum mysteries of the subatomic world. With his trademark blend of wit and physical insight, A. Zee guides readers from the classical notion of the field to the modern frontiers of quantum field theory, covering a host of topics along the way, including antimatter, Feynman diagrams, virtual particles, the path integral, quantum chromodynamics, electroweak unification, grand unification, and quantum gravity. A unique and valuable introduction for students and general readers alike, Quantum Field Theory, as Simply as Possible explains how quantum field theory informs our understanding of the universe, and how it can shed light on some of the deepest mysteries of physics.

The Universe of General Relativity Apr 07 2021 Outgrowth of 6th Int'l Conference on the History of General Relativity, held in Amsterdam on June 26-29, 2002 Contributions from notable experts offer both new and historical insights on gravitation, general relativity, cosmology, unified field theory, and the history of science Topics run gamet from detailed mathematical discussions to more personal recollections of relativity as seen through the eyes of the public and renowned relativists

Euclidean Quantum Field Theory. I May 28 2020 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.