

Maximum Entropy and Bayesian Methods

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Fundamental Theories of Physics

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Glenn R. Heidbreder



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Heidbreder,2014-01-15 Maximum Entropy and Bayesian Methods Santa Barbara, California, U.S.A., 1993 Glenn R.
Heidbreder,2013-03-09 Maximum entropy and Bayesian methods have fundamental central roles in scientific inference and with the growing availability of computer power are being successfully applied in an increasing number of applications in many disciplines This volume contains selected papers presented at the Thirteenth International Workshop on Maximum Entropy and Bayesian Methods It includes an extensive tutorial section and a variety of contributions detailing application in the physical sciences engineering law and economics Audience Researchers and other professionals whose work requires the application of practical statistical inference **Maximum Entropy and Bayesian Methods Santa Barbara, California, U.S.A., 1993** Glenn R. Heidbreder,1996-05-31 Proceedings of the Thirteenth International Workshop on Maximum Entropy and Bayesian Methods **Maximum Entropy and Bayesian Methods**,1996 This volume contains selections from among the presentations at the Thirteenth International Workshop on Maximum Entropy and Bayesian Methods MAXENT93 for short held at the University of California Santa Barbara UCSB August 1 5 1993 This annual workshop is devoted to the theory and practice of Bayesian probability and the use of the maximum entropy principle in assigning prior probabilities Like its predecessors MAXENT93 attracted researchers and scholars representing a wide diversity of disciplines and applications These included physicists geophysicists astronomers statisticians engineers and economists among others Indeed Bayesian methods increasingly compel the interest of any who would apply scientific inference The impressive successes so evident in the proceedings of the past workshops when adherence to Bayesian principles replaces popular ad hoc approaches in problems of inference continue Many are reported in this volume It is perhaps indicative of the growing acceptance of Bayesian methods that the most prominent controversy at the thirteenth workshop was not a Bayesian frequentists confrontation but rather a disagreement over the suitability of using an approximation in the Bayesian formalism

Maximum Entropy and Bayesian Methods Garching, Germany 1998 Wolfgang von der Linden,Volker Dose,Rainer Fischer,Roland Preuss,1999-07-31 In 1978 Edwin T Jaynes and Myron Tribus initiated a series of workshops to exchange ideas and recent developments in technical aspects and applications of Bayesian probability theory The first workshop was held at the University of Wyoming in 1981 organized by C R Smith and W T Grandy Due to its success the workshop was held annually during the last 18 years Over the years the emphasis of the workshop shifted gradually from fundamental concepts of Bayesian probability theory to increasingly realistic and challenging applications The 18th international workshop on Maximum Entropy and Bayesian Methods was held in Garching Munich Germany 27 31 July 1998 Opening lectures by G Larry Bretthorst and by Myron Tribus were dedicated to one of th the pioneers of Bayesian probability theory who died on the 30 of April 1998 Edwin Thompson Jaynes Jaynes revealed and advocated the correct meaning of probability as the state

of knowledge rather than a physical property This interpretation allowed him to unravel longstanding mysteries and paradoxes Bayesian probability theory the logic of science as E T Jaynes called it provides the framework to make the best possible scientific inference given all available experimental and theoretical information We gratefully acknowledge the efforts of Tribus and Bretthorst in commemorating the outstanding contributions of E T Jaynes to the development of probability theory

Fundamental Problems in Quantum Physics M. Ferrero, Alwyn van der Merwe, 1995-10-31 For many physicists quantum theory contains strong conceptual difficulties while for others the apparent conclusions about the reality of our physical world and the ways in which we discover that reality remain philosophically unacceptable This book focuses on recent theoretical and experimental developments in the foundations of quantum physics including topics such as the puzzles and paradoxes which appear when general relativity and quantum mechanics are combined the emergence of classical properties from quantum mechanics stochastic electrodynamics EPR experiments and Bell's Theorem the consistent histories approach and the problem of datum uniqueness in quantum mechanics non local measurements and teleportation of quantum states quantum non demolition measurements in optics and matter wave properties observed by neutron electron and atomic interferometry Audience This volume is intended for graduate students of physics and those interested in the foundations of quantum theory

Euclidean Quantum Gravity on Manifolds with Boundary Maria Rosaria D'Esposito, A.Yu. Kamenshchik, G. Pollifrone, 1997-03-31 This book reflects our own struggle to understand the semiclassical behaviour of quantized fields in the presence of boundaries Along many years motivated by the problems of quantum cosmology and quantum field theory we have studied in detail the one loop properties of massless spin 1/2 fields Euclidean Maxwell theory gravitino potentials and Euclidean quantum gravity Hence our book begins with a review of the physical and mathematical motivations for studying physical theories in the presence of boundaries with emphasis on electrostatics vacuum v Maxwell theory and quantum cosmology We then study the Feynman propagator in Minkowski space time and in curved space time In the latter case the corresponding Schwinger DeWitt asymptotic expansion is given The following chapters are devoted to the standard theory of the effective action and the geometric improvement due to Vilkovisky the manifestly covariant quantization of gauge fields zeta function regularization in mathematics and in quantum field theory and the problem of boundary conditions in one loop quantum theory For this purpose we study in detail Dirichlet Neumann and Robin boundary conditions for scalar fields local and non local boundary conditions for massless spin 1/2 fields mixed boundary conditions for gauge fields and gravitation This is the content of Part I Part II presents our investigations of Euclidean Maxwell theory simple super gravity and Euclidean quantum gravity

Complex General Relativity Maria Rosaria D'Esposito, 1995-02-28 This book is written for theoretical and mathematical physicists and mathematicians interested in recent developments in complex general relativity and their application to classical and quantum gravity Calculations are presented by paying attention to those details normally omitted in research papers for pedagogical reasons Familiarity with

fibre bundle theory is certainly helpful but in many cases I only rely on two spinor calculus and conformally invariant concepts in gravitational physics The key concepts the book is devoted to are complex manifolds spinor techniques conformal gravity planes surfaces Penrose transform complex 3 1 space time models with non vanishing torsion spin fields and spin potentials 2 2 Problems have been inserted at the end to help the reader to check his und standing of these topics Thus I can find at least four reasons for writing yet another book on spinor and twistor methods in general relativity i to write a textbook useful to ginning graduate students and research workers where two component spinor c culus is the unifying mathematical language

The Geometry of Higher-Order Lagrange Spaces R. Miron,1997-01-31 This monograph is devoted to the problem of the geometrizing of Lagrangians which depend on higher order accelerations It presents a construction of the geometry of the total space of the bundle of the accelerations of order $k \geq 1$ A geometrical study of the notion of the higher order Lagrange space is conducted and the old problem of prolongation of Riemannian spaces to k osculator manifolds is solved Also the geometrical ground for variational calculus on the integral of actions involving higher order Lagrangians is dealt with Applications to higher order analytical mechanics and theoretical physics are included as well Audience This volume will be of interest to scientists whose work involves differential geometry mechanics of particles and systems calculus of variation and optimal control optimization optics electromagnetic theory and biology

Hierarchical Methods V. Kulish,2002-10-31 The book consists of two Volumes The first the preceding volume is devoted to the general nonlinear theory of the hierarchical dynamic oscillative wave systems This theory has been called the theory of hi archical oscillations and waves Here two aspects of the proposed theory are discussed The first aspects concern the fundamental nature and the basic c cepts and ideas of a new hierarchical approach to studying hierarchical dynamic systems A new hierarchical paradigm is proposed as a sis of a new point of view of such types of systems In turn a set of hierarchical principles is formulated as the fundamental basis of this paradigm Therein the self resemblance holographic principle plays a key role here An adequate mathematic description factorization of the proposed paradigm is carried out The concepts of structural and dynamic functional operators are put into the basis of this descr tion Electrodynamics is chosen as a convenient basis for an obvious demonstration of some key points of the proposed new theory The second aspect has a purely mathematical nature It is related to the form of factorization i e mathematical description of hier chical types of dynamic models and discussion of the methods of their mathematical analysis A set of the hierarchical asymptotic analytical numerical methods is given as an evidence of the practical effectiveness of the proposed version of hierarchical theory

Theory of High Temperature Superconductivity S. Fujita,S. Godoy,2001-12-31 Flux quantization experiments indicate that the carriers Cooper pairs pairons in the supercurrent have charge magnitude $2e$ and that they move independently Josephson interference in a Superconducting Quantum Int ference Device SQUID shows that the centers of masses CM of pairons move as bosons with a linear dispersion relation Based on this evidence we develop a theory of superconductivity in conventional

and materials from a unified point of view. Following Bardeen, Cooper, and Schrieffer (BCS), we regard the phonon exchange attraction as the cause of superconductivity. For cuprate superconductors, however, we take account of both optical and acoustic phonon exchange. BCS started with a Hamiltonian containing electron and hole kinetic energies and a pairing interaction with the phonon variables eliminated. These electrons and holes were introduced formally in terms of a free electron model which we consider unsatisfactory. We define electrons and holes in terms of the curvatures of the Fermi surface. Electrons 1 and holes 2 are different and so they are assigned with different effective masses. Blatt, Schafroth, and Butler proposed to explain superconductivity in terms of a Bose-Einstein Condensation (BEC) of electron pairs, each having mass M and a size. The system of free massive bosons having a quadratic dispersion relation and moving in three dimensions (3D) undergoes a BEC transition at where is the pair density.

Quantum Mechanics Ajoy Ghatak, S. Lokanathan, 2004-03-31. An understanding of quantum mechanics is vital to all students of physics, chemistry, and electrical engineering but requires a lot of mathematical concepts the details of which are given with great clarity in this book. Various concepts have been derived from first principles so it can also be used for self study. The chapters on the JWKB approximation, time independent perturbation theory, and effects of magnetic field stand out for their clarity and easy to understand mathematics. Two complete chapters on the linear harmonic oscillator provide a very detailed discussion of one of the most fundamental problems in quantum mechanics. Operator algebra is used to show the ease with which one can calculate the harmonic oscillator wave functions and study the evolution of the coherent state. Similarly, three chapters on angular momentum give a detailed account of this important problem. Perhaps the most attractive feature of the book is the excellent balance between theory and applications and the large number of applications in such diverse areas as astrophysics, nuclear physics, atomic and molecular spectroscopy, solid state physics, and quantum well structures.

Reading Bohr: Physics and Philosophy Arkady Plotnitsky, 2006-11-15. Reading Bohr: Physics and Philosophy offers a new perspective on Niels Bohr's interpretation of quantum mechanics as complementarity and on the relationships between physics and philosophy in Bohr's work which has had momentous significance for our understanding of quantum theory and of the nature of knowledge in general. Philosophically, the book reassesses Bohr's place in the Western philosophical tradition from Kant and Hegel on. Physically, it reconsiders the main issues at stake in the Bohr-Einstein confrontation and in the ongoing debates concerning quantum physics. It also devotes greater attention than in most commentaries on Bohr to the key developments and transformations of his thinking concerning complementarity. Most significant among them were those that occurred first under the impact of Bohr's exchanges with Einstein and second under the impact of developments in quantum theory itself, both quantum mechanics and quantum field theory. The importance of quantum field theory for Bohr's thinking has not been adequately addressed in the literature on Bohr to the considerable detriment to our understanding of the history of quantum physics. Filling this lacuna is one of the main contributions of the book which also enables us to show why quantum field theory

compels us to move beyond Bohr without however simply leaving him behind

Uniformly Accelerating Charged

Particles Stephen Lyle, 2008-07-22 This book examines the problems with the LD equation in flat spacetime and details its extension to curved spacetime It compares different equivalence principles as well as vindicates some *Classical Electromagnetic Theory* Jack Vanderlinde, 2006-01-17 In questions of science the authority of a thousand is not worth the humble reasoning of a single individual Galileo Galilei physicist and astronomer 1564 1642 This book is a second edition of Classical Electromagnetic Theory which derived from a set of lecture notes compiled over a number of years of teaching electromagnetic theory to fourth year physics and electrical engineering students These students had a previous exposure to electricity and magnetism and the material from the first four and a half chapters was presented as a review I believe that the book makes a reasonable transition between the many excellent elementary books such as Griffiths' Introduction to Electrodynamics and the obviously graduate level books such as Jackson's Classical Electrodynamics or Landau and Lifshitz's Electrodynamics of Continuous Media If the students have had a previous exposure to Electromagnetic theory all the material can be reasonably covered in two semesters Neophytes should probably spend a semester on the first four or five chapters as well as depending on their mathematical background the Appendices B to F For a shorter or more elementary course the material on spherical waves waveguides and waves in anisotropic media may be omitted without loss of continuity

Nonlinear Optical Waves A.I. Maimistov, A.M. Basharov, 1999-06-30 A non linear wave is one of the fundamental objects of nature They are inherent to aerodynamics and hydrodynamics solid state physics and plasma physics optics and field theory chemistry reaction kinetics and population dynamics nuclear physics and gravity All non linear waves can be divided into two parts dispersive waves and dissipative ones The history of investigation of these waves has been lasting about two centuries In 1834 J S Russell discovered the extraordinary type of waves without the dispersive broadening In 1965 N J Zabusky and M D Kruskal found that the Korteweg de Vries equation has solutions of the solitary wave form This solitary wave demonstrates the particle like properties i.e. stability under propagation and the elastic interaction under collision of the solitary waves These waves were named solitons In succeeding years there has been a great deal of progress in understanding of soliton nature Now solitons have become the primary components in many important problems of nonlinear wave dynamics It should be noted that non linear optics is the field where all soliton features are exhibited to a great extent This book had been designed as the tutorial to the theory of non linear waves in optics The first version was projected as the book covering all the problems in this field both analytical and numerical methods and results as well However it became evident in the process of work that this was not a real task

Clifford Algebras and Their Application in Mathematical

Physics Volker Dietrich, Klaus Habetha, Gerhard Jank, 1998 Clifford Algebras continues to be a fast growing discipline with ever increasing applications in many scientific fields This volume contains the lectures given at the Fourth Conference on Clifford Algebras and their Applications in Mathematical Physics held at RWTH Aachen in May 1996 The papers represent an

excellent survey of the newest developments around Clifford Analysis and its applications to theoretical physics Audience This book should appeal to physicists and mathematicians working in areas involving functions of complex variables associative rings and algebras integral transforms operational calculus partial differential equations and the mathematics of physics

Introduction to Soliton Theory: Applications to Mechanics Ligia Munteanu, Stefania Donescu, 2004-08-11 This monograph is planned to provide the application of the soliton theory to solve certain practical problems selected from the fields of solid mechanics fluid mechanics and biomechanics The work is based mainly on the authors research carried out at their home institutes and on some specified significant results existing in the published literature The methodology to study a given evolution equation is to seek the waves of permanent form to test whether it possesses any symmetry properties and whether it is stable and solitonic in nature Students of physics applied mathematics and engineering are usually exposed to various branches of nonlinear mechanics especially to the soliton theory The soliton is regarded as an entity a quasi particle which conserves its character and interacts with the surroundings and other solitons as a particle It is related to a strange phenomenon which consists in the propagation of certain waves without attenuation in dissipative media This phenomenon has been known for about 200 years it was described for example by the Joule Verne s novel *Les histoires de Jean Marie Cabidoulin d Hetzel* but its detailed quantitative description became possible only in the last 30 years due to the exceptional development of computers The discovery of the physical soliton is attributed to John Scott Russell In 1834 Russell was observing a boat being drawn along a narrow channel by a pair of horses

Vavilov-Cherenkov and Synchrotron Radiation G.N. Afanasiev, 2006-01-17 Annotation This monograph is intended for the students of the third year and higher for postgraduates for the professional scientists both experimentalists and theoreticians dealing with Vavilov Cherenkov and synchrotron radiations Jacket

The Landscape of Theoretical Physics: A Global View M. Pavsic, 2001-11-30 Today many important directions of research are being pursued more or less independently of each other These are for instance strings and mem branes induced gravity embedding of spacetime into a higher dimensional space the brane world scenario the quantum theory in curved spaces Fock Schwinger proper time formalism parametrized relativistic quantum the ory quantum gravity wormholes and the problem of time machines spin and supersymmetry geometric calculus based on Clifford algebra various interpretations of quantum mechanics including the Everett interpretation and the recent important approach known as decoherence A big problem as I see it is that various people thoroughly investigate their narrow field without being aware of certain very close relations to other fields of research What we need now is not only to see the trees but also the forest In the present book I intend to do just that to carry out a first approximation to a synthesis of the related fundamental theories of physics I sincerely hope that such a book will be useful to physicists From a certain viewpoint the book could be considered as a course in the oretical physics in which the foundations of all those relevant fundamental theories and concepts are attempted to be thoroughly reviewed Unsolved problems and paradoxes are pointed out I show

that most of those approaches have a common basis in the theory of unconstrained membranes. The very interesting and important concept of membrane space, the tensor calculus in and functional transformations in are discussed.

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