

Fourth Edition

# Introduction to Statistics and Data Analysis for Physicists



Gerhard Bohm • Günter Zech

# Statistics For Physicists

**Bernard H. Lavenda**



## **Statistics For Physicists:**

*Statistics* R. J. Barlow, 2013-06-05 The Manchester Physics Series General Editors D J Sandiford F Mandl A C Phillips Department of Physics and Astronomy University of Manchester Properties of Matter B H Flowers and E Mendoza Optics Second Edition F G Smith and J H Thomson Statistical Physics Second Edition F Mandl Electromagnetism Second Edition I S Grant and W R Phillips Statistics R J Barlow Solid State Physics Second Edition J R Hook and H E Hall Quantum Mechanics F Mandl Particle Physics Second Edition B R Martin and G Shaw The Physics of Stars Second Edition A C Phillips Computing for Scientists R J Barlow and A R Barnett Written by a physicist Statistics is tailored to the needs of physical scientists containing and explaining all they need to know It concentrates on parameter estimation especially the methods of Least Squares and Maximum Likelihood but other techniques such as hypothesis testing Bayesian statistics and non parametric methods are also included Intended for reasonably numerate scientists it contains all the basic formulae their derivations and applications together with some more advanced ones Statistics features Comprehensive coverage of the essential techniques physical scientists are likely to need A wealth of examples and problems with their answers Flexible structure and organisation allows it to be used as a course text and a reference A review of the basics so that little prior knowledge is required

**Statistical Methods in Experimental Physics** Frederick James, 2006 The first edition of this classic book has become the authoritative reference for physicists desiring to master the finer points of statistical data analysis This second edition contains all the important material of the first much of it unavailable from any other sources In addition many chapters have been updated with considerable new material especially in areas concerning the theory and practice of confidence intervals including the important Feldman Cousins method Both frequentist and Bayesian methodologies are presented with a strong emphasis on techniques useful to physicists and other scientists in the interpretation of experimental data and comparison with scientific theories This is a valuable textbook for advanced graduate students in the physical sciences as well as a reference for active researchers Basic Statistics for Physicists Barry Randolph Martin, 1968

**Probability and Statistics** Arak M. Mathai, Hans J. Haubold, 2017-12-18 This book offers an introduction to concepts of probability theory probability distributions relevant in the applied sciences as well as basics of sampling distributions estimation and hypothesis testing As a companion for classes for engineers and scientists the book also covers applied topics such as model building and experiment design Contents Random phenomena Probability Random variables Expected values Commonly used discrete distributions Commonly used density functions Joint distributions Some multivariate distributions Collection of random variables Sampling distributions Estimation Interval estimation Tests of statistical hypotheses Model building and regression Design of experiments and analysis of variance Questions and answers *Basics Of Statistical Physics: A Bachelor Degree Introduction* Harald J W Muller-kirsten, 2009-08-21 Statistics links microscopic and macroscopic phenomena and requires for this reason a large number of microscopic elements like atoms The results are values of

maximum probability or of averaging This introduction to statistical physics concentrates on the basic principles and attempts to explain these in simple terms supplemented by numerous examples The basic principles concentrated on are the difference between classical and quantum statistics the a priori probabilities as related to degeneracies the vital aspect of indistinguishability as compared with distinguishability in classical physics the differences between conserved and nonconserved elements the latter including photons and phonons the different ways of counting arrangements in the three statistics Maxwell Boltzmann Fermi Dirac Bose Einstein the difference between maximization of the number of arrangements of elements in these and averaging in the Darwin Fowler method Significant applications to solids radiation and to electrons in metals are treated in separate chapters Finally the Bose Einstein distribution is rederived under condensation conditions Each chapter concludes with examples and exercises

*Introduction to statistics and data analysis for physicists* Gerhard Bohm, Günter Zech, 2010

**Statistics for Nuclear and Particle Physicists** Louis Lyons, 1989-04-06 This book written by a non statistician for non statisticians emphasises the practical approach to those problems in statistics which arise regularly in data analysis situations in nuclear and high energy physics experiments Rather than concentrating on formal proofs of theorems an abundant use of simple examples illustrates the general ideas which are presented showing the reader how to obtain the maximum information from the data in the simplest manner Possible difficulties with the various techniques and pitfalls to be avoided are also discussed Based on a series of lectures given by the author to both students and staff at Oxford this common sense approach to statistics will enable nuclear physicists to understand better how to do justice to their data in both analysis and interpretation

*Statistical Physics* Bernard H. Lavenda, 2016-08-01 This innovative probabilistic approach to statistical mechanics employs Gauss's principle to provide a powerful tool for the statistical analysis of physical phenomenon Topics include Boltzmann's principle black body radiation and quantum statistics 1991 edition

**Statistical Physics** Tony Guenault, 2013-03-09 Statistical physics is not a difficult subject and I trust that this will not be found a difficult book It contains much that a number of generations of Lancaster students have studied with me as part of their physics honours degree work The lecture course was of twenty hours duration and I have added comparatively little to the lecture syllabus A pre requisite is that the reader should have a working knowledge of basic thermal physics i.e the laws of thermodynamics and their application to simple substances The book *Thermal Physics* by Colin Finn in this series forms an ideal introduction Statistical physics has a thousand and one different ways of approaching the same basic results I have chosen a rather down to earth and unsophisticated approach without I hope totally obscuring the considerable interest of the fundamentals This enables applications to be introduced at an early stage in the book As a low temperature physicist I have always found a particular interest in statistical physics and especially in how the absolute zero is approached I should not therefore apologize for the low temperature bias in the topics which I have selected from the many possibilities

*Statistics for Nuclear and Particle Physicists* Louis Lyons, 1989

**Statistical Physics** Franz Mandl, 1991-01-08 The Manchester

Physics Series General Editors D J Sandiford F Mandl A C Phillips Department of Physics and Astronomy University of Manchester Properties of Matter B H Flowers and E Mendoza Optics Second Edition F G Smith and J H Thomson Statistical Physics Second Edition E Mandl Electromagnetism Second Edition I S Grant and W R Phillips Statistics R J Barlow Solid State Physics Second Edition J R Hook and H E Hall Quantum Mechanics F Mandl Particle Physics Second Edition B R Martin and G Shaw The Physics of Stars Second Edition A C Phillips Computing for Scientists R J Barlow and A R Barnett Statistical Physics Second Edition develops a unified treatment of statistical mechanics and thermodynamics which emphasises the statistical nature of the laws of thermodynamics and the atomic nature of matter Prominence is given to the Gibbs distribution leading to a simple treatment of quantum statistics and of chemical reactions Undergraduate students of physics and related sciences will find this a stimulating account of the basic physics and its applications Only an elementary knowledge of kinetic theory and atomic physics as well as the rudiments of quantum theory are presupposed for an understanding of this book Statistical Physics Second Edition features A fully integrated treatment of thermodynamics and statistical mechanics A flow diagram allowing topics to be studied in different orders or omitted altogether Optional starred and highlighted sections containing more advanced and specialised material for the more ambitious reader Sets of problems at the end of each chapter to help student understanding Hints for solving the problems are given in an Appendix

Statistical Methods for Data Analysis in Particle Physics Luca Lista, 2017-10-13 This concise set of course based notes provides the reader with the main concepts and tools needed to perform statistical analyses of experimental data in particular in the field of high energy physics HEP First the book provides an introduction to probability theory and basic statistics mainly intended as a refresher from readers advanced undergraduate studies but also to help them clearly distinguish between the Frequentist and Bayesian approaches and interpretations in subsequent applications More advanced concepts and applications are gradually introduced culminating in the chapter on both discoveries and upper limits as many applications in HEP concern hypothesis testing where the main goal is often to provide better and better limits so as to eventually be able to distinguish between competing hypotheses or to rule out some of them altogether Many worked out examples will help newcomers to the field and graduate students alike understand the pitfalls involved in applying theoretical concepts to actual data This new second edition significantly expands on the original material with more background content e g the Markov Chain Monte Carlo method best linear unbiased estimator applications unfolding and regularization procedures control regions and simultaneous fits machine learning concepts and examples e g look elsewhere effect calculation

**Probability and Statistics for Particle Physics** Carlos Maña, 2017-04-21 This book comprehensively presents the basic concepts of probability and Bayesian inference with sufficient generality to make them applicable to current problems in scientific research The first chapter provides the fundamentals of probability theory that are essential for the analysis of random phenomena The second chapter includes a full and pragmatic review of the Bayesian methods that

constitute a natural and coherent framework with enough freedom to analyze all the information available from experimental data in a conceptually simple manner The third chapter presents the basic Monte Carlo techniques used in scientific research allowing a large variety of problems to be handled difficult to tackle by other procedures The author also introduces a basic algorithm which enables readers to simulate samples from simple distribution and describes useful cases for researchers in particle physics The final chapter is devoted to the basic ideas of Information Theory which are important in the Bayesian methodology This highly readable book is appropriate for graduate level courses while at the same time being useful for scientific researches in general and for physicists in particular since most of the examples are from the field of Particle Physics

**Probability and Statistics in Experimental Physics** Byron P. Roe, 2001-06-21 Second edition includes a new chapter on queuing problems and introduces a new method for dealing with experiments in which only a few events are observed

Statistics for Physicists Brian Robert Martin, 1971

**Statistical Physics** Josef Honerkamp, 2012-06-19 The application of statistical methods to physics is essential This unique book on statistical physics offers an advanced approach with numerous applications to the modern problems students are confronted with Therefore the text contains more concepts and methods in statistics than the student would need for statistical mechanics alone Methods from mathematical statistics and stochastics for the analysis of data are discussed as well The book is divided into two parts focusing first on the modeling of statistical systems and then on the analysis of these systems Problems with hints for solution help the students to deepen their knowledge The third edition has been updated and enlarged with new sections deepening the knowledge about data analysis Moreover a customized set of problems with solutions is accessible on the Web at [extras.springer.com](http://extras.springer.com)

*Statistical Methods in Radiation Physics* James E. Turner, Darryl J. Downing, James S. Bogard, 2012-08-27 This statistics textbook with particular emphasis on radiation protection and dosimetry deals with statistical solutions to problems inherent in health physics measurements and decision making The authors begin with a description of our current understanding of the statistical nature of physical processes at the atomic level including radioactive decay and interactions of radiation with matter Examples are taken from problems encountered in health physics and the material is presented such that health physicists and most other nuclear professionals will more readily understand the application of statistical principles in the familiar context of the examples Problems are presented at the end of each chapter with solutions to selected problems provided online In addition numerous worked examples are included throughout the text

The Concept of Probability in Statistical Physics Y. M. Guttman, 1999-07-13 A most systematic study of how to interpret probabilistic assertions in the context of statistical mechanics

*Statistics in Science* R. Cooke, D. Costantini, 2012-12-06 An inference may be defined as a passage of thought according to some method In the theory of knowledge it is customary to distinguish deductive and non deductive inferences Deductive inferences are truth preserving that is the truth of the premises is preserved in the conclusion As a result the conclusion of a deductive inference is already contained in the premises although we may not know

this fact until the inference is performed Standard examples of deductive inferences are taken from logic and mathematics Non deductive inferences need not preserve truth that is thought may pass from true premises to false conclusions Such inferences can be expansive or ampliative in the sense that the performances of such inferences actually increases our putative knowledge Standard non deductive inferences do not really exist but one may think of elementary inductive inferences in which conclusions regarding the future are drawn from knowledge of the past Since the body of scientific knowledge is increasing it is obvious that the method of science must allow non deductive as well as deductive inferences Indeed the explosive growth of science in recent times points to a prominent role for the former Philosophers of science have long tried to isolate and study the non deductive inferences in science The inevitability of such inferences on the one hand juxtaposed with the poverty of all efforts to identify them constitutes one of the major cognitive embarrassments of our time

**From Statistical Physics to Statistical Inference and Back** P. Grassberger, J.P. Nadal, 2012-12-06 Physicists when modelling physical systems with a large number of degrees of freedom and statisticians when performing data analysis have developed their own concepts and methods for making the best inference But are these methods equivalent or not What is the state of the art in making inferences The physicists want answers More neural computation demands a clearer understanding of how neural systems make inferences the theory of chaotic nonlinear systems as applied to time series analysis could profit from the experience already booked by the statisticians and finally there is a long standing conjecture that some of the puzzles of quantum mechanics are due to our incomplete understanding of how we make inferences Matter enough to stimulate the writing of such a book as the present one But other considerations also arise such as the maximum entropy method and Bayesian inference information theory and the minimum description length Finally it is pointed out that an understanding of human inference may require input from psychologists This lively debate which is of acute current interest is well summarized in the present work

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