

Statistics for nuclear and particle physicists

LOUIS LYONS



Statistics For Physicists

Josef Honerkamp



Statistics For Physicists:

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

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 Statistics for Nuclear and Particle Physicists Louis Lyons, 1989

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

Basic Statistics for Physicists Barry Randolph Martin, 1968

Statistics for Physicists Brian Robert Martin, 1971

Applications of Statistics to Medicine and Medical Physics Edward L. Nickoloff, 2011

Forlagets beskrivelse This book was written with two specific goals in mind The first is as a resource for graduate students who are pursuing an advanced degree in medical physics who are also required to take a course in statistics This text includes many practical medical physics problems which would be ideal for this course Although there are a number of statistics books available there are no books which present statistics in a context that has applications important to medical physics and medicine Most medical physicists are familiar with the very basics of statistical analysis like mean and standard deviation however their ability to analyze data and design statistically valid experiments may be limited The second goal therefore is for the book to serve as a key resource on statistical analysis for senior medical physicists or clinical researchers The book includes 11 chapters beginning with very basic topics like Binomial Poisson and Normal probability distributions and gradually progressing to more advanced topics

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

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Statistics For Physicists Introduction

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