

Statistical Methods In Experimental Physics 2nd Edition

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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

understanding designing and conducting experiments is at the heart of science this text introduces the fundamental principles on which physicists should build a thorough experimental approach to their discipline

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intended for advanced undergraduates and graduate students this book is a practical guide to the use of probability and statistics in experimental physics the emphasis is on applications and understanding on theorems and techniques actually used in research the text is not a comprehensive text in probability and statistics proofs are sometimes omitted if they do not contribute to intuition in understanding the theorem the problems some with worked solutions introduce the student to the use of computers occasional reference is made to routines available in the CERN library but other systems such as Maple can also be used topics covered include basic concepts definitions some simple results independent of specific distributions discrete distributions the normal and other continuous distributions generating and characteristic functions the Monte Carlo method and computer simulations multi dimensional distributions the central limit theorem inverse probability and confidence belts estimation methods curve fitting and likelihood ratios interpolating functions fitting data with constraints robust estimation methods this second edition introduces a new method for dealing with small samples such as may arise in search experiments when the data are of low probability it also includes a new chapter

on queuing problems including a simple but useful buffer length example in addition new sections discuss over and under coverage using confidence belts the extended maximum likelihood method the use of confidence belts for discrete distributions estimation of correlation coefficients and the effective variance method for fitting y f x when both x and y have measurement errors

fundamental operations in laboratory glass blowing laboratory optical work technique of high vacuum coating of surfaces evaporation and sputtering the use of fused silica electrometers and electroscopes geiger counters vacuum thermopiles and the measurement of radiant energy optics light sources filters and optical instruments photoelectric cells and amplifiers photography in the laboratory heat and high temperature notes on the materials of research notes on the construction and design of instruments and apparatus molding and casting

although text books of practical physics are now fairly numerous the demonstrators in physics of the university of toronto appear to have found it impossible to adapt any of the existing ones to the requirements of their students the same difficulty has been experienced in most english laboratories partly on account of the diversity which exists between the apparatus of the various institutions and partly because of the different aims of students working in them consequently nearly every laboratory possesses instruction sheets either in print or manuscript which have in some instances been edited and issued in book form the present volume is a case in point the experiments described in the book are arranged in two courses elementary and advanced in the former of which weighing and measuring light and heat are included while the advanced course consists of sound advanced heat electricity and magnetism some easy experiments in electricity and magnetism might have been included in the elementary course otherwise the selection is a fairly good and useful one the section on sound contains figures and descriptions of helmholtz s and k nig s apparatus for various experiments but many students laboratories in this country are unfortunately not equipped with large electrically driven tuning forks and chronographs experimental details are sometimes omitted for example in describing the use of the spectrometer as a goniometer the student is not told how to focus the telescope and adjust the slit so as to obtain a parallel beam of light from the collimator in the same experiment it is erroneously stated that the edge of the crystal must coincide with the axis of the instrument whereas the two need only be parallel to each other if the collimator is properly adjusted again in calorimetric measurements errors arising from radiation between the calorimeter and its surroundings are not very adequately discussed the calorimeter is supposed in all experiments to alter its temperature at a uniform rate and matters are so arranged that the mean between its initial and final temperatures is that of the atmosphere in specific heat determinations a preliminary experiment is necessary in order to satisfy the

latter condition and the assumption of uniform rise of temperature is only approximately true even when the body under experiment is a good conductor of heat the book is printed in a bold clear type and its illustrations are good it will be found a useful addition to the laboratory bookshelf philosophical magazine

a selection of papers and personal discovery stories dealing with innovative unconventional adventurous experimentation

all solids are composed of atoms or molecules and in order to explain their behavior experiments and theories came forward simultaneously many new materials were synthetically and systematically developed in the laboratories properties of which needed to be understood before deploying them in various technologies it is known that there is a strong correlation between structure and properties of materials therefore experiments on solids involve understanding their structure with diffraction techniques using x rays electrons or neutrons the materials may be in different forms like bulk solid thin films or powders and need to be observed using microscopes finally the properties can be correlated to electronic structure which can be deciphered through various spectroscopy techniques magnetic measurements give the insight in to electron electron correlation the advantages and limitations of the techniques are also spelled out in other words this book takes into account the unaddressed needs of students and teachers associated with the experimental methods its relevance has increased manifold as it addresses a wide scope of the topics in concise manner such as improving signal to noise ratio cryogenic methods vacuum science sources and detectors for electrons photons from infra red to gamma rays error analysis statistical handling of data etc please note this title is co published with capital publishers new delhi taylor francis does not sell or distribute the hardback in india pakistan nepal bhutan bangladesh and sri lanka

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