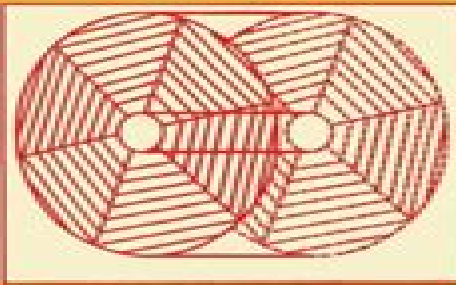


W. R. Leo

# Techniques for Nuclear and Particle Physics Experiments

A How-to Approach

Second Revised Edition



Springer-Verlag

# Techniques For Nuclear And Particle Physics Experiments A How To Approach

**WJ Hussar**



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**Techniques for Nuclear and Particle Physics Experiments** William R. Leo, 1994-02-25 A treatment of the experimental techniques and instrumentation most often used in nuclear and particle physics experiments as well as in various other experiments providing useful results and formulae technical know how and informative details This second edition has been revised while sections on Cherenkov radiation and radiation protection have been updated and extended

*Techniques for Nuclear and Particle Physics Experiments* William R. Leo, 1987 This book is an outgrowth of an advanced laboratory course in experimental nuclear of Geneva and particle physics the author gave to physics majors at the University 1978 1983 The course was offered to third and fourth year students during the years the latter of which had at this point in their studies chosen to specialize in experimental nuclear or particle physics This implied that they would go on to do a diploma thesis with one of the high or intermediate energy research groups in the physics department The format of the course was such that the students were required to concentrate on only one experiment during the trimester rather than perform a series of experiments as is more typical of a traditional course of this type Their tasks thus included planning the experiment learning the relevant techniques setting up and troubleshooting the measuring apparatus calibration data taking and analysis as well as responsibility for maintaining their equipment i e tasks resembling those in a real experiment This more intensive involvement provided the students with a better understanding of the experimental problems encountered in a professional experiment and helped instill a certain independence and confidence which would prepare them for entry into a research group in the department Teaching assistants were present to help the students during the trimester and a series of weekly lectures was also given on various topics in experimental nuclear and particle physics

**Techniques for Nuclear and Particle Physics Experiments** William R Leo, 1994-02-25

**Physics Experiments: A How-To Approach, 2Nd Ed** Leo, 2009-11-01

**Techniques For Nuclear And Particle Data Analysis Techniques for High-Energy Physics** Rudolf Frühwirth, M. Regler, 2000-08-17 Now thoroughly revised and up dated this book describes techniques for handling and analysing data obtained from high energy and nuclear physics experiments The observation of particle interactions involves the analysis of large and complex data samples Beginning with a chapter on real time data triggering and filtering the book describes methods of selecting the relevant events from a sometimes huge background The use of pattern recognition techniques to group the huge number of measurements into physically meaningful objects like particle tracks or showers is then examined and the track and vertex fitting methods necessary to extract the maximum amount of information from the available measurements are explained The final chapter describes tools and methods which are useful to the experimenter in the physical interpretation and in the presentation of the results This indispensable guide will appeal

to graduate students researchers and computer and electronic engineers involved with experimental physics

**Data Analysis Techniques for Physical Scientists** Claude A. Pruneau, 2017-10-05 A comprehensive guide to data analysis techniques for physical scientists providing a valuable resource for advanced undergraduate and graduate students as well as seasoned researchers The book begins with an extensive discussion of the foundational concepts and methods of probability and statistics under both the frequentist and Bayesian interpretations of probability It next presents basic concepts and techniques used for measurements of particle production cross sections correlation functions and particle identification Much attention is devoted to notions of statistical and systematic errors beginning with intuitive discussions and progressively introducing the more formal concepts of confidence intervals credible range and hypothesis testing The book also includes an in depth discussion of the methods used to unfold or correct data for instrumental effects associated with measurement and process noise as well as particle and event losses before ending with a presentation of elementary Monte Carlo techniques

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scintillation dosimetry covering everything from basic radiation dosimetry concepts to plastic scintillating fiber optics Comprised of chapters authored by leading experts in the medical physics community the book Discusses a broad range of technical implementations from point source dosimetry scaling to 3D volumetric and 4D scintillation dosimetry Addresses a wide scope of clinical applications from machine quality assurance to small field and in vivo dosimetry Examines related optical techniques such as optically stimulated luminescence OSL or erenkov luminescence Thus Scintillation Dosimetry provides an authoritative reference for detailed state of the art information on plastic scintillation dosimetry and its use in the field of radiation dosimetry

**Batch Effects and Noise in Microarray Experiments** Andreas Scherer,2009-11-03 Batch Effects and Noise in Microarray Experiments Sources and Solutions looks at the issue of technical noise and batch effects in microarray studies and illustrates how to alleviate such factors whilst interpreting the relevant biological information Each chapter focuses on sources of noise and batch effects before starting an experiment with examples of statistical methods for detecting measuring and managing batch effects within and across datasets provided online Throughout the book the importance of standardization and the value of standard operating procedures in the development of genomics biomarkers is emphasized Key Features A thorough introduction to Batch Effects and Noise in Microrarray Experiments A unique compilation of review and research articles on handling of batch effects and technical and biological noise in microarray data An extensive overview of current standardization initiatives All datasets and methods used in the chapters as well as colour images are available on [www the batch effect book org](http://www.thebatcheffectbook.org) so that the data can be reproduced An exciting compilation of state of the art review chapters and latest research results which will benefit all those involved in the planning execution and analysis of gene expression studies

**XUV Pump-Probe Experiments on Diatomic Molecules** Kirsten Schnorr,2014-12-29 This book explores the relaxation dynamics of inner valence ionized diatomic molecules on the basis of extreme ultraviolet pump probe experiments performed at the free electron laser FEL in Hamburg Firstly the electron rearrangement dynamics in dissociating multiply charged iodine molecules is studied in an experiment that made it possible to access charge transfer in a thus far unexplored quasimolecular regime relevant for plasma and chemistry applications of the FEL Secondly the lifetime of an efficient non radiative relaxation process that occurs in weakly bound systems is measured directly for the first time in a neon dimer Ne<sub>2</sub> Interatomic Coulombic decay ICD has been identified as the dominant decay mechanism in inner valence ionized or excited van der Waals and hydrogen bonded systems the latter being ubiquitous in all biomolecules The role of ICD in DNA damage thus demands further investigation e g with regard to applications like radiation therapy

**An Introduction to Nuclear Fission** Walid Younes,Walter D. Loveland,2021-11-15 This hands on textbook introduces physics and nuclear engineering students to the experimental and theoretical aspects of fission physics for research and applications through worked examples and problem sets The study of nuclear fission is currently undergoing a renaissance Recent advances in the field create the opportunity to develop more reliable models of

fission predictability and to supply measurements and data to critical applications including nuclear energy national security and counter proliferation and medical isotope production An Introduction to Nuclear Fission provides foundational knowledge for the next generation of researchers to contribute to nuclear fission physics

**Experimental Techniques in Nuclear and Particle Physics** Stefaan Tavernier, 2010-02-06 I have been teaching courses on experimental techniques in nuclear and particle physics to master students in physics and in engineering for many years This book grew out of the lecture notes I made for these students The physics and engineering students have rather different expectations of what such a course should be like I hope that I have nevertheless managed to write a book that can satisfy the needs of these different target audiences The lectures themselves of course need to be adapted to the needs of each group of students An engineering student will not question a statement like the velocity of the electrons in atoms is 1% of the velocity of light a physics student will Regarding units I have written factors  $h$  and  $c$  explicitly in all equations throughout the book For physics students it would be preferable to use the convention that is common in physics and omit these constants in the equations but that would probably be confusing for the engineering students Physics students tend to be more interested in theoretical physics courses However physics is an experimental science and physics students should understand how experiments work and be able to make experiments work This is an open access book

**Active Interrogation in Nuclear Security** Igor Jovanovic, Anna S. Erickson, 2018-06-07 This volume constitutes the state of the art in active interrogation widely recognized as indispensable methods for addressing current and future nuclear security needs Written by a leading group of science and technology experts this comprehensive reference presents technologies and systems in the context of the fundamental physics challenges and practical requirements It compares the features limitations technologies and impact of passive and active measurement techniques describes radiation sources for active interrogation including electron and ion accelerators intense lasers and radioisotope based sources and it describes radiation detectors used for active interrogation Entire chapters are devoted to data acquisition and processing systems modeling and simulation data interpretation and algorithms and a survey of working active measurement systems Active Interrogation in Nuclear Security is structured to appeal to a range of audiences including graduate students active researchers in the field and policy analysts The first book devoted entirely to active interrogation Presents a focused review of the relevant physics Surveys available technology Analyzes scientific and technology trends Provides historical and policy context Igor Jovanovic is a Professor of Nuclear Engineering and Radiological Sciences at the University of Michigan and has previously also taught at Penn State University and Purdue University He received his Ph D from University of California Berkeley and worked as physicist at Lawrence Livermore National Laboratory Dr Jovanovic has made numerous contributions to the science and technology of radiation detection as well as the radiation sources for use in active interrogation in nuclear security He has taught numerous undergraduate and graduate courses in areas that include radiation detection nuclear physics and nuclear security At University of Michigan Dr

Jovanovic is the director of Neutron Science Laboratory and is also associated with the Center for Ultrafast Optical Science Anna Erickson is an Assistant Professor in the Nuclear and Radiological Engineering Program of the G W Woodruff School of Mechanical Engineering at Georgia Institute of Technology Previously she was a postdoctoral researcher in the Advanced Detectors Group at Lawrence Livermore National Laboratory Dr Erickson received her PhD from Massachusetts Institute of Technology with a focus on radiation detection for active interrogation applications Her research interests focus on nuclear non proliferation including antineutrino analysis and non traditional detector design and characterization She teaches courses in advanced experimental detection for reactor and nuclear nonproliferation applications radiation dosimetry and fast reactor analysis

*Detecting Environmental Radioactivity* Manuel García-León, 2022-11-30 This textbook presents the principles and methods for the measurement of radioactivity in the environment In this regard specific low level radiation counting and spectrometry or mass spectrometry techniques are discussed including sources distribution levels and dynamics of radioactivity in nature The author gives an accurate description of the fundamental concepts and laws of radioactivity as well as the different types of detectors and mass spectrometers needed for detection Special attention is paid to scintillators semiconductor detectors and gas ionization detectors In order to explain radiochemistry some concepts about chemical separations are introduced as well The book is meant for graduate and advanced undergraduate students in physics chemistry or engineering oriented to environmental sciences and to other disciplines where monitoring of the environment and its management is of great interest

*Understanding the Universe* Don Lincoln, 2012 This book explains the fascinating world of quarks and leptons and the forces that govern their behavior Told from an experimental physicist s perspective it forgoes mathematical complexity using instead particularly accessible figures and apt analogies In addition to the story of quarks and leptons which are regarded as well accepted fact the author who is a leading researcher at one of the world s highest energy particle physics laboratories also discusses mysteries at both the experimental and theoretical frontiers before tying it all together with the exciting field of cosmology and indeed the birth of the universe itself

**Understanding The Universe: From Quarks To Cosmos (Revised Edition)** Donald Lincoln, 2012-03-20 The Big Bang the birth of the universe was a singular event All of the matter of the universe was concentrated at a single point with temperatures so high that even the familiar protons and neutrons of atoms did not yet exist but rather were replaced by a swirling maelstrom of energy matter and antimatter Exotic quarks and leptons flickered briefly into existence before merging back into the energy sea This book explains the fascinating world of quarks and leptons and the forces that govern their behavior Told from an experimental physicist s perspective it forgoes mathematical complexity using instead particularly accessible figures and apt analogies In addition to the story of quarks and leptons which are regarded as well accepted fact the author who is a leading researcher at one of the world s highest energy particle physics laboratories also discusses mysteries at both the experimental and theoretical frontiers before tying it all together with the exciting field of cosmology and indeed the birth of

the universe itself The text spans the tiny world of the quark to the depths of the universe with breathtaking clarity The casual student of science will appreciate the careful distinction between what is known quarks leptons and antimatter what is suspected Higgs bosons neutrino oscillations and the reason why the universe has so little antimatter and what is merely dreamed supersymmetry superstrings and extra dimensions Included is an unprecedented chapter explaining the accelerators and detectors of modern particle physics experiments The chapter discussing the hunt for the Higgs boson currently consuming the efforts of nearly 6000 physicists reveals drama that only big stakes science can give Understanding the Universe leaves the reader with a deep appreciation of the fascinating particle realm and reverence for just how much it determines the rich beauty of our universe Since the release of the first edition the landscape has changed The venerable Fermilab Tevatron has ceased operations after a quarter century of extraordinary performance to be replaced by the CERN Large Hadron Collider an accelerator with a design energy of seven times greater than the Tevatron and a collision rate of nearly a billion collisions per second The next few years promise to be very exciting as scientists explore this new realm This revised edition of Understanding the Universe will leave the reader with a deep appreciation of just why physicists are so excited

**Brief Tests of Collection Strength** Howard D. White, 1995-09-26 For purposes of accreditation resource sharing and institutional mission librarians need to assess the strengths of their collections in particular subject areas This book describes and illustrates a brief test for determining a library's collection strength Though such tests are most often employed in academic libraries the methodology outlined by the author should be useful to all types of libraries in assessing the strength of their holdings In a time of increasing material and limited resources libraries need to be particularly judicious in deciding which works to acquire Oftentimes a library seeks to develop strong holdings in one or more subject areas Such an approach is especially useful for libraries that share their resources with other institutions To plan their acquisitions carefully and to be of greatest use to other consortia members a library needs to gauge the strength of its holdings accurately This volume describes and illustrates a relatively brief test to assign libraries a score for existing collection strength in a subject area Drawing upon expert human judgment and holdings data available from OCLC the test can assist librarians in setting and verifying collection levels on the RLG or WLN Conspectus scales Collection strength is often verified in a labor intensive fashion The brief test presented by the author is an economical alternative to the more typical labor intensive approach to collection analysis

Measurement, Instrumentation, and Sensors Handbook, Second Edition John G. Webster, Halit Eren, 2014-01-29 The Second Edition of the bestselling Measurement Instrumentation and Sensors Handbook brings together all aspects of the design and implementation of measurement instrumentation and sensors Reflecting the current state of the art it describes the use of instruments and techniques for performing practical measurements in engineering physics chemistry and the life sciences and discusses processing systems automatic data acquisition reduction and analysis operation characteristics accuracy errors calibrations and the incorporation of standards for control purposes



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