



PROCEEDINGS
INTERNATIONAL SCHOOL OF PHYSICS «ENRICO FERMI»

COURSE 185

Metrology and Physical Constants

edited by E. Bava, M. Kühne and A. M. Rossi

17-27 July 2012

Villa Monastero
Varenna, Lake Como



Metrology And Fundamental Constants International School Of Physics Enrico Fermi

Peter W. Hawkes



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Metrology and Fundamental Constants Scuola internazionale di fisica Enrico Fermi, 2006 **Metrology and Fundamental Constants** Theo W. Hänsch, Società italiana di fisica, 2007 *Recent Advances in Metrology and Fundamental Constants* Terence John Quinn, S. Leschiutta, 2001 Metrology and Fundamental Constants T. Haensch, S. Leschiutta, A. Wallard, 2007-10-26 One of the exciting characteristics of metrology is its intimate relationship between fundamental physics and the leading edge of technology which is needed to perform advanced and challenging experiments and measurements This title includes a set of lectures which present the relevant progress in Metrology *Recent Advances in Metrology and Fundamental Constants* Scuola Internazionale di Fisica Enrico Fermi, Società Italiana di Fisica, 2000

Metrology: from Physics Fundamentals to Quality of Life P. Tavella, M.J.T. Milton, M. Inguscio, 2018-01-03 Metrology is a constantly evolving field and one which has developed in many ways in the last four decades This book presents the proceedings of the Enrico Fermi Summer School on the topic of Metrology held in Varenna Italy from 26 June to 6 July 2017 This was the 6th Enrico Fermi summer school devoted to metrology the first having been held in 1976 The 2017 program addressed two major new directions for metrology the work done in preparation for a possible re definition of four of the base units of the SI in 2018 and the impact of the application of metrology to issues addressing quality of life such as global climate change and clinical and food analysis on science citizens and society The lectures were grouped into three modules metrology for quality of life fundamentals of metrology and physical metrology and fundamental constants and topics covered included food supply and safety biomarkers monitoring climate and air quality new SI units measurement uncertainty fundamental constants electrical metrology optical frequency standards and photometry and light metrology The book provides an overview of the topics and changes relevant to metrology today and will be of interest to both academics and all those whose work involves any of the various aspects of this field *Recent Advances in Metrology and Fundamental Constants* Terry J. Quinn, T. J. Quinn, Sigfrido Leschiutta, P. Tavella, Società italiana di fisica, 2001 Over the last decade of the 20th century many improvements took place in the field of metrology and fundamental constants These developments and improvements are discussed in this book The old caesium SI second definition has found a new realization with the fountain approach replacing the classical thermal atomic beam The use of cold atom techniques slowed down and cooled has opened a number of unexpected avenues for metrology and fundamental constants one of these possibilities being the atom interferometry Another development was the demonstration of the possibility of performing a direct frequency division in the visible using short femtosecond pulses Many other developments are also discussed **From Artefacts to Atoms** Terry Quinn, 2012 This is the story of the International Bureau of Weights and Measures from its origins in the 1860s until today It highlights the role of key individuals in the development of the institution and the path from artifact standards of the metre and the kilogram to units based on the fundamental constants of physics *Handbook of Metrology* Michael Gläser, Manfred

Kochsiek,2010-06-08 Metrology is the study of measurement It includes all theoretical and practical aspects of measurement and may be divided into three subfields Scientific or fundamental metrology concerns the establishment of measurement units unit systems development of new measurement methods realization of measurement standards and the transfer of traceability from these standards to users in society This handbook contains articles dealing with general topics of measurement and articles on particular subjects in mechanics and acoustics electricity optics temperature time and frequency chemistry medicine and particles The contributions of the first part are summarized as follows Introduction Units Fundamental Constants Fundamentals of Materials Measurement and Testing Measurement of Mass Density Measurement and Instrumentation of Flow Ultrasonics Measurement of Basic Electromagnetic Quantities Quantum Electrical Standards Metrology of Time and Frequency Temperature Measurement Metrology in Medicine Metrology and Physical Constants E. Bava,M. Kühne,A.M. Rossi,2013-10-15 The reliability and accuracy of systems of measurement continue to advance We are about to enter a period of the most stable measurement system we can imagine with the anticipated new definitions of the SI units of measurement a direct link between fundamental physics and metrology which will eliminate the current definition of the kilogram until now based upon an artifact This book presents selected papers from Course 185 of the Enrico Fermi International School of Physics held in Varenna Italy in July 2012 and jointly organized with the Bureau International des Poids et Mesures BIPM The papers delivered at the school covered some of the most advanced topics in the discipline of metrology including nano technologies quantum information and quantum devices biology and medicine food surface quality ionising radiation for health environment art and archaeology and climate The continuous and striking advances in basic research concerning atomic frequency standards operating both in the visible range and at microwave levels and the applications to satellite systems are also considered in the framework of a historical review of the international organization of metrology as are the problems inherent in uncertainty statements and definitions This book will be of interest to all those whose work involves scientific measurement at the highest levels of accuracy Advances in Imaging and Electron Physics Peter W. Hawkes,2005-10-18 Advances in Imaging and Electron Physics merges two long running serials Advances in Electronics and Electron Physics and Advances in Optical and Electron Microscopy This series features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies microlithography image science and digital image processing electromagnetic wave propagation electron microscopy and the computing methods used in all these domains Discusses Spectral Color Spaces Covers Phase Contrast Enhancement with Phase Plates in Electron Microscopy Studies the Optical Properties of Gas Phase Field Ionization Sources Looks at Symmetric and Nonsymmetric Divergence Measures and Their Generalizations Describes the features and future of the International System of Units SI Illustrates Importance Sampling Hough Transform **Atomic Physics 8** I. Lindgren,2012-12-06 The Eighth International Conference on Atomic Physics was held at Chalmers University of Technology Goteborg Sweden on August 2 6

1982 Following the tradition established by earlier conferences in the series it was attended by 280 participants from 24 countries A total of 28 invited talks were delivered at the conference These talks which are presented in this volume covered a wide range of topics in atomic physics in a broad sense They extend from very basic problems e g the interpretation of quantum mechanics in light of Bell's theorem and the feasibility of relativistic many body calculations to applied problems e g laser detection of trace elements and spectroscopy of chemisorbed molecules Professor M Ya Amusia was unable to attend the conference but his invited paper is included here Professor V S Letokhov presented a talk entitled Prospects of Laser Detection of Very Rare Isotopes but was unable to provide a manuscript At the conference 175 posters were presented Abstracts have been published in a separate volume It is very much appreciated that all the 1981 Nobel laureates Nicolaas Bloembergen Arthur Schawlow and Kai Siegbahn were able to attend and deliver their invited talks Professor Schawlow summed up the conference and this too is presented here The conference also benefited considerably from the presence of Professor I I Rabi who gave a much appreciated talk at the conference dinner As this talk was given without a manuscript it could unfortunately not be included here

New Frontiers for Metrology: From Biology and Chemistry to Quantum and Data Science Martin J.T. Milton, Diederik S. Wiersma, Carl J. Williams, Michela Sega, 2021-12-15 The use of standard and reliable measurements is essential in many areas of life but nowhere is it of more crucial importance than in the world of science and physics in particular This book contains 20 contributions presented as part of Course 206 of the International School of Physics Enrico Fermi on New Frontiers for Metrology From Biology and Chemistry to Quantum and Data Science held in Varenna Italy from 4-13 July 2019 The Course was the 7th in the Enrico Fermi series devoted to metrology and followed a milestone in the history of measurement the adoption of new definitions for the base units of the SI During the Course participants reviewed the decision and discussed how the new foundation for metrology is opening new possibilities for physics with several of the lecturers reflecting on the implications for an easier exploration of the unification of quantum mechanics and gravity A wide range of other topics were covered from measuring color and appearance to atomic weights and radiation and including the application of metrological principles to the management and interpretation of very large sets of scientific data and the application of metrology to biology The book also contains a selection of posters from the best of those presented by students at the Course Offering a fascinating exploration of the latest thinking on the subject of metrology this book will be of interest to researchers and practitioners from many fields

Advanced Mathematical Tools In Metrology Iii Patrizia Ciarlini, Maurice G Cox, Franco Pavese, Caparica D Richter, 1997-08-05 This book is of interest to researchers in universities research centres and industries who are involved in measurements and need advanced mathematical tools to solve their problems and to whoever is working in the development of these mathematical tools Advances in metrology depend on improvements in scientific and technical knowledge and in instrumentation quality as well in a better use of advanced mathematical tools and in the development of new ones In this book scientists from both the

mathematical and the metrological fields exchange their experiences Industrial sectors such as instrumentation and software are likely to benefit from this exchange since metrology has a high impact on the overall quality of industrial products and applied mathematics is becoming more and more important in industrial processes **Metrology Companion** Goran Kostić, 2018

The Reform of the International System of Units (SI) Nadine de Courtenay, Olivier Darrigol, Oliver Schlaudt, 2019-01-15 Systems of units still fail to attract the philosophical attention they deserve but this could change with the current reform of the International System of Units SI Most of the SI base units will henceforth be based on certain laws of nature and a choice of fundamental constants whose values will be frozen The theoretical experimental and institutional work required to implement the reform highlights the entanglement of scientific technological and social features in scientific enterprise while it also invites a philosophical inquiry that promises to overcome the tensions that have long obstructed science studies **Mass Metrology** S. V. Gupta, 2012-01-26 This book presents the practical aspects of mass

measurements Concepts of gravitational inertial and conventional mass and details of the variation of acceleration of gravity are described The Metric Convention and International Prototype Kilogram and BIPM standards are described The effect of change of gravity on the indication of electronic balances is derived with respect of latitude altitude and earth topography The classification of weights by OIML is discussed Maximum permissible errors in different categories of weights prescribed by national and international organizations are presented Starting with the necessity of redefining the unit kilogram in terms of physical constants various methods of defining the kilogram in terms of physical constants are described The kilogram can be defined by Avogadro's constant ion collection of some heavy elements levitation voltage and Watt Balance The detection of very small mass of the order of zeptogram through Nanotechnology is also discussed Latest recommendations of CIPM are given Laser-plasma Acceleration : Proceedings of the International School of Physics "Enrico Fermi", Varenna on Lake

Como, Villa Monastero, 20-25 June 2011 Fernando Ferroni, Leonida Antonio Gizzi, Riccardo Faccini, 2012 Impressive progress has been made in the field of laser plasma acceleration in the last decade with outstanding achievements from both experimental and theoretical viewpoints Closely exploiting the development of ultra intense ultrashort pulse lasers laser plasma acceleration has developed rapidly achieving accelerating gradients of the order of tens of GeV/m and making the prospect of miniature accelerators a more realistic possibility This book presents the lectures delivered at the Enrico Fermi International School of Physics and summer school Laser Plasma Acceleration held in Varenna Italy in June 2011

Metrology at the Frontiers of Physics and Technology L. Crovini, T.J. Quinn, 1992-10-22 The spectroscopy of trapped ions or laser cooled atoms offers the prospect of visible frequency standards to match or even exceed the accuracy of the caesium standard The development of satellite methods for time comparisons has improved by more than an order of magnitude the accuracy with which national laboratories can routinely compare their clocks Mechanical metrology has not been left behind Driven by the need to improve manufacturing technology major advances have taken place in computer control machining

and mechanical measuring systems These and many other fascinating developments in the field of metrology are presented in this book

The Hydrogen Atom S.G. Karshenboim, F.S. Pavone, F. Bassani, M. Inguscio, T.W. Hänsch, 2007-12-03 For more than a century studies of atomic hydrogen have been a rich source of scientific discoveries These began with the Balmer series in 1885 and the early quantum theories of the atom and later included the development of QED and the first successful gauge field theory Today hydrogen and its relatives continue to provide new fundamental information as witnessed by the contributions to this book The printed volume contains invited reviews on the spectroscopy of hydrogen muonium positronium few electron ions and exotic atoms together with related topics such as frequency metrology and the determination of fundamental constants The accompanying CD contains in addition to these reviews a further 40 contributed papers also presented at the conference Hydrogen Atom 2 held in summer 2000 Finally to facilitate a historical comparison the CD also contains the proceedings of the first Hydrogen Atom conference of 1988 The book includes a foreword by Norman F Ramsey

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