

From Artefacts To Atoms The Bipm And The Search For Ultimate Measurement Standards

Hardback

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the international bureau of weights and measures bipm is currently implementing the greatest change ever in the world s system of weights and measures it is redefining the kilogram the final artefact standard and reorganizing the system of international units this book tells the inside story of what led to these changes from the events surrounding the founding of the bipm in 1875 a landmark in the history of international cooperation to the present it traces not only the evolution of the science but also the story of the key individuals and events the bipm was the first international scientific laboratory founded in 1875 by the metre convention its original tasks were to conserve the new international standards of the metre and the kilogram to carry out calibrations for member states and undertake research to advance measurement science the book is based on the substantial archive of the bipm which from the very beginning recounts the many discussions and arguments first as to whether and how such an institute should be created and in due course how over the next one hundred and thirty years it should develop despite many national and personal rivalries the institute actually created was admirably suited to its declared tasks in the years and decades that followed the scientific work of the small group of men who made up its first staff was of a very high order one of the early directors received the nobel prize for physics in 1920 for his discovery of invar the international governing board of the institute the international committee of weights and measures has guided the institute from one charged with the conservation of the prototype artefacts to one now at the centre of world metrology and preparing for the redefinition of the last remaining artifact

the kilogram in terms of a fixed value for one of the fundamental constants of physics the planck constant

this accessible reference presents the evolution of concepts of time and methods of time keeping for historians scientists engineers and educators the second edition has been updated throughout to describe twentieth and twenty first century advances progress in devices time and cosmology the redefinition of si units and the future of utc

this book offers explanatory material supplemental information and detailed descriptions used to produce the astronomical almanac an annual publication prepared jointly by the us naval observatory and her majesty s nautical almanac office in the uk the explanatory supplement to the astronomical almanac offers explanatory material supplemental information and detailed descriptions of the computational models and algorithms used to produce the astronomical almanac which is an annual publication prepared jointly by the us naval observatory and her majesty s nautical almanac office in the uk like the astronomical almanac the explanatory supplement provides detailed coverage of modern positional astronomy chapters are devoted to the celestial and terrestrial reference frames orbital ephemerides precession nutation earth rotation and coordinate transformations these topics have undergone substantial revisions since the last edition was published in 1992 astronomical positions are intertwined with timescales and relativity in the astronomical almanac so related chapters are provided in the explanatory supplement the astronomical almanac also includes information on lunar and solar eclipses physical ephemerides of solar system bodies and calendars so the explanatory supplement expounds upon each of these topics as well the book is written at a technical but non expert level as such it provides an important reference for a full range of users including astronomers engineers navigators surveyors space scientists and educators

a new time concept is presented it concerns the si unit and quantities for the standard the physics is analyzed on time this explication set the fundamentals for a new

time in most science i offer clear and simple arguments for most interested readers the reader reaches the fundamentals of contemporary technical time the application of these theories leads to comprehensively think time in a corrected way instead of defining the new time precisely for the standard which is for the responsible to do the basic ideas around time are formulated explicated to the new conception easy to apply

proceedings of the 141st symposium of the international astronomical union held in leningrad ussr october 17 21 1989

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

bachelor thesis from the year 2007 in the subject computer science technical computer science grade 1 0 university of applied sciences technikum vienna informations und kommunikationssysteme 29 entries in the bibliography language english abstract clock synchronization is a necessary and critical part in most distributed systems for many years ntp was the state of the art way of synchronizing computer clocks distributed in space however as recent advances in miniaturization lead to the construction of smaller more powerful and less power consuming computers embedded devices sensors and actuators the need for more precise time synchronization grew this work thus sets out to compare selected approaches to clock synchronization in distributed systems the well known global positioning system is disseminating accurate time and frequency information from the international institutes that keep the time ntp can still do the same but at

different levels of accuracy as well as cost clock synchronization protocols like ieee1588 or ttp and bus architectures like flexray evolved from the need to further propagate the timing information within small networks and therefore staying within the specified limits of preciseness

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