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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

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

this springer handbook of metrology and testing presents the principles of metrology the science of measurement and the methods and techniques of testing determining the characteristics of a given product as they apply to chemical and microstructural analysis and to the measurement and testing of materials properties and performance including modelling and simulation the principal motivation for this handbook stems from the increasing demands of technology for measurement results that can be used globally measurements within a local laboratory or manufacturing facility must be able to be reproduced accurately anywhere in the world the book integrates knowledge from basic sciences and engineering disciplines compiled by experts from internationally known metrology and testing institutions and academe as well as from industry and conformity assessment and accreditation bodies the commission of the

european union has expressed this as there is no science without measurements no quality without testing and no global markets without standards

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

the dogma of the sovereignty of the state deriving from the peace of westphalia underpins much of the modern day international system however developments in recent technology have led this ideology to depart from reality viewing state sovereignty through the prism of public international law the book will begin with an overview of the settlement of westphalia how it has influenced international documents ever since and how the advantages of centralised decisions came to be perceived by surveying the law of the sea maritime law air and aviation telecommunications postal services space law and mensuration the book demonstrates how in each the interplay between state sovereignty and developing technologies have caused significant legal change some changes lyall argues such as international measures of time and geography have been born out of convenience facilitated by technology developed for the purpose other areas of change developed out of a desire to reconcile conflicts or harmonise necessary state regulation the book analyses the reasons behind these changes and discusses the ongoing attempts to balance state equality measures adopted by new institutions to secure comprehensive representation it ends by looking to the future of state sovereignty in an increasingly globalised world the book is of use to any student or scholar interested in policy making international law and international affairs both legal and scientific as well as those looking at legal administrative issues and government officiation

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very good no highlights or markup all pages are intact

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