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*Notes on Social Measurement* 1984-08-31 a richly erudite history of measurement and an account of its current state in the social sciences fascinating informative provocative james s coleman university of chicago wise and powerful american journal of sociology personal and provocative an excellent set of historical and critical ruminations from one of social measurement's greatest contributors choice

**The Basis of Measurement: Historical aspects** 1995 the application of standard measurement is a cornerstone of modern science in this collection of essays standardization of procedure units of measurement and the epistemology of standardization are addressed by specialists from sociology history and the philosophy of science

Standardization in Measurement 2015-10-06 historical and conceptual foundations of measurement in the human sciences explores the assessment and measurement of nonphysical attributes that define human beings abilities personalities attitudes dispositions and values the proposition that human attributes are measurable remains controversial as do the ideas and innovations of the six historical figures gustav fechner francis galton alfred binet charles spearman louis thurstone and s s stevens at the heart of this book across 10 rich elaborative chapters readers are introduced to the origins of educational and psychological scaling mental testing classical test theory factor analysis and diagnostic classification and to controversies spanning the quantity objection the role of measurement in promoting eugenics theories of intelligence the measurement of attitudes and beyond graduate students researchers and professionals in educational measurement and psychometrics will emerge with a deeper appreciation for both the challenges and the affordances of measurement in quantitative research

**Historical and Conceptual Foundations of Measurement in the Human Sciences** 2021-11-15 historical and conceptual foundations of measurement in the human sciences explores the assessment and measurement of non physical attributes that define human beings abilities personalities attitudes dispositions and values the proposition that human attributes are measurable remains controversial as do the ideas and innovations of the six historical figures gustav fechner francis galton alfred binet charles spearman louis thurstone and s s stevens at the heart of this book across ten rich elaborative chapters readers are introduced to the origins of educational and psychological scaling mental testing classical test theory factor analysis and diagnostic classification and to controversies spanning the quantity objection the role of measurement in promoting eugenics theories of intelligence the measurement of attitudes and beyond graduate students researchers and professionals in educational measurement and psychometrics will emerge with a deeper appreciation for both the challenges and the affordances of measurement in quantitative research

*Historical and Conceptual Foundations of Measurement in the Human Sciences* 2021-09 this book discusses how and why historical measurement units developed and reviews useful methods for making conversions as well as situations in which dimensional analysis can be used it starts from the history of length measurement which is one of the oldest measures used by humans it highlights the importance of area measurement briefly discussing the methods for determining areas mathematically and by measurement the book continues on to detail the development of measures for volume mass weight time temperature angle electrical units amounts of substances and light intensity the seven si metric base units are highlighted as well as a number of other units that have historically been used as base units providing a comprehensive reference for interconversion among the commonly measured quantities in the different measurement systems with engineering accuracy it also examines the relationships among base units in fields such as mechanical thermal electromagnetic and physical flow rates and fluxes using diagrams

Quantification 1961 this first of three volumes starts with a short introduction to historical metrology as a scientific discipline and goes on with an anthology of ancient and modern measurement systems of all kind scientific measures units of time weights currencies etc it concludes with an exhaustive list of references units of measurement are of vital importance in every civilization through history since the early ages man has through necessity devised various measures to assist him in everyday life they have enabled and continue to enable us to trade in commonly and equitably understood amounts and to investigate understand and control the chemical physical and biological processes of the natural world the essence of the work is an alphabetically ordered comprehensive list of measurement nomenclature units and scales it provides an understanding of almost all quantitative expressions observed in all imaginable situations including spelling variants and the abbreviations and symbols for units and various acronyms used in metrology it will be of use not only to historians of science and technology but also to economic and social historians and should be in every major academic and national library as standard reference work on the topic

*History and Measurement of the Base and Derived Units* 2018-05-17 this second volume of gyllenbok's encyclopaedia of historical metrology comprises the first part of the compendium of measurement systems and currencies of all sovereign states of the modern world a i units of measurement are of vital importance in every civilization through history since the early ages man has through necessity devised various measures to assist him in everyday life they have enabled and continue to enable us to trade in commonly and equitably understood amounts and to investigate understand and control the chemical physical and biological processes of the natural world the encyclopaedia will be of use not only to historians of science and technology but also to economic and social historians and should be in every major academic and national library as standard reference work on the topic

*Brief History and Use of the English and Metric Systems of Measurement with a Chart of the Modernized Metric System* 1969 the history of educational measurement collects essays on the most important topics in educational testing measurement and psychometrics authored by the field's top scholars this book offers unique historical viewpoints

from origins to modern applications of formal testing programs and mental measurement theories topics as varied as large scale testing validity item response theory federal involvement and notable assessment controversies complete a survey of the field s greatest challenges and most important achievements graduate students researchers industry professionals and other stakeholders will find this volume relevant for years to come

Encyclopaedia of Historical Metrology, Weights, and Measures 2018-04-23 the history of educational measurement collects essays on the most important topics in educational testing measurement and psychometrics authored by the field s top scholars this book offers unique historical viewpoints from origins to modern applications of formal testing programs and mental measurement theories topics as varied as large scale testing validity item response theory federal involvement and notable assessment controversies complete a survey of the field s greatest challenges and most important achievements graduate students researchers industry professionals and other stakeholders will find this volume relevant for years to come

*A Century of Measurement* 2000 now in its second edition this book provides a practical guide to measured building surveys with special emphasis on recording the fabric of historic buildings it includes two new chapters dealing with modern survey practice using instruments and photographic techniques as well as a chapter examining recording methods as used on a specific project case study undertaken by the museum of london archaeology service measured surveys for producing accurate scaled drawings of buildings and their immediate surroundings may be undertaken for a variety of reasons the principal ones are to provide a historic record and to form the base drawings upon which a proposed programme of works involving repairs alterations adaptations or extensions can be prepared this book provides a practical guide to preparing measured surveys of historic buildings with special emphasis on recording the fabric the text assumes little previous knowledge of surveying and begins by describing basic measuring techniques before introducing elementary surveying and levelling from these principles the practices and techniques used to measure and record existing buildings are developed in a detailed step by step approach covering sketching measuring plotting and drawing presentation for this new edition the text on hand survey methods has been revised to note where new techniques and equipment can be incorporated as well as explaining where more advanced survey methods may be best used to advantage information on locating early maps and plans aerial photography and its uses documentary research procurement of surveys and conventional photography has been incorporated at various points as appropriate in addition ross dallas provides two new chapters dealing with modern survey practice using instruments and photographic techniques also the opportunity has been taken to present a wider view of building recording projects by including a new chapter from the museum of london archaeological service molas building recording team it encompasses their five key principles for recording within an illustrative case study

Quantification 1978 a vibrant account of how measurement has invisibly shaped our world from ancient civilizations to the modern day from the cubit to the kilogram the humble inch to the speed of light measurement is a powerful tool that humans invented to make sense of the world in this revelatory work of science and social history james vincent dives into its hidden world taking readers from ancient egypt where measuring the annual depth of the Nile was an essential task to the intellectual origins of the metric system in the french revolution and from the surprisingly animated rivalry between metric and imperial to our current age of the quantified self at every turn vincent is keenly attuned to the political consequences of measurement exploring how it has also been used as a tool for oppression and control beyond measure reveals how measurement is not only deeply entwined with our experience of the world but also how its history encompasses and shapes the human quest for knowledge

Encyclopaedia of Historical Metrology, Weights, and Measures 2018-05-24 systemic risk history measurement and regulation presents an overview of this emerging form of risk from a global perspective systemic risks endanger entire financial systems not just individual financial institutions in this volume the authors review how systemic risk has evolved over the last 40 years across continents to come to the forefront of regulatory attention they then discuss transmission channels provide a review of systemic risk measures and describe new regulations that have been introduced as well as the theory and practice of financial stability committees that have been set up internationally overall the book provides a practical guide to understand identify assess and control systemic risk while the financial research on systemic risk has strongly increased since the events of 2008 this book is a first in providing a detailed yet concise overview of the topic covering the history of systemic risk its measurement and its regulation the authors provide both academic and practitioner oriented insights and draw on their different regions of expertise to provide a global perspective on systemic risk

**The History of Educational Measurement** 2021-07-07 units are the foundation for all measurement of the natural world and from which standard our understanding develops this book stemming from a conference on the history of units organised by the editors provides a detailed and discursive examination of the history of units within physics in advance of the proposed redefinition of the si base units at the general conference on weights and measures in 2018 it features contributions from leading researchers in metrology and history prové de l editor

*The History of Educational Measurement* 2021-07-07 2003 paul bunge prize of the hans r jenemann foundation for the history of scientific instruments judging the brightness and color of light has long been contentious alternately described as impossible and routine it was beset by problems both technical and social how trustworthy could such measurements be was the best standard of intensity a gas lamp an incandescent bulb or a glowing pool of molten metal and how much did the answers depend on the background of the specialist a history of light and colour measurement science in the shadows is a history of the hidden workings of physical science a technical endeavor

embedded in a social context it argues that this undisciplined subject straddling academia commerce and regulation may be typical not only of 20th century science but of its future attracting scientists engineers industrialists and artists the developing subject produced a new breed of practitioners having mixed provenance the new measurers of light had to decide the shape not only of their specialism but of their careers were they to be a part of physics engineering or psychology the physical scientists who dominated the subject into the early 20th century made their central aim the replacement of the problematic human eye with physical detectors of light for psychologists between the wars though describing the complexity of color was more important than quantifying a handful of its dimensions and after wwii military designers shaped the subject of radiometry and subsumed photometry and colorimetry within it never attaining a professional cachet these various specialists moved fluidly between science and technology through government industry and administration

**The History of Statistics** 1998 history and philosophy of science and technology is a component of encyclopedia of physical sciences engineering and technology resources in the global encyclopedia of life support systems eolss which is an integrated compendium of twenty one encyclopedias the theme on history and philosophy of science and technology in four volumes covers several topics such as introduction to the philosophy of science the nature and structure of scientific theories natural science a short history of molecular biology the structure of the darwinian argument in the origin of species history of measurement theory episodes of xx century cosmology a historical approach philosophy of economics social sciences historical and philosophical overview of methods and goals introduction to ethics of science and technology the ethics of science and technology the control of nature and the origins of the dichotomy between fact and value science and empires the geo epistemic location of knowledge science and religion scientific knowledge and religious knowledge significant epistemological reference points thing called philosophy of technology transitions from function oriented to effect oriented technologies some thought on the nature of modern technology technical agency and sources of technological pessimism these four volumes are aimed at a broad spectrum of audiences university and college students educators and research personnel

**Measurement and Recording of Historic Buildings** 2016-04-01 a measure of the degree of departure of a landscape from its range of historical conditions can provide a means for prioritizing and planning areas for restoration treatments there are few statistics or indices that provide a quantitative context for measuring departure across landscapes this study evaluated a set of five similarity indices commonly used in vegetation community ecology sorenson s index chord distance morisita s index euclidean distance and similarity ratio for application in estimating landscape departure where departure 1 similarity this involved comparing composition vegetation type by area of a set of reference landscapes to the compositions of 1 000 simulated historical landscapes stochastic simulation modeling was used to create a diverse set of synthetic reference and historical landscapes for departure index evaluation five reference landscapes were created to represent various degrees of expected departure from historical conditions both reference and historical landscapes were created to contain four important factors that could potentially influence departure calculation 1 number of classes defining landscape composition 2 dominance of the classes 3 variability of area with the classes and 4 temporal autocorrelation we found that most evaluated indices are useful but not optimal for calculating departure the sorenson s index appeared to perform the best with consistent and precise behavior across the ranges of the four treatments the number of classes used to describe vegetation had the strongest influence on index performance landscape composition defined by few classes had the least accurate most imprecise and most highly variable departure estimates while results from this study show the utility of similarity indices in evaluating departure it is also evident that a new set of statistics are needed to provide a more comprehensive analysis of departure for future applications

**Brief History and Use of the English and Metric Systems of Measurement with a Chart of the Modernized Metric System** 1969 this book is an introduction to the history of and current measurement practice of inflation for the united kingdom the authors describe the historical development of inflation measures in a global context and do so without using formal mathematical language and related jargon that relates only to a few specialist scholars although inflation is a widely used and quoted statistic and despite the important role inflation plays in real people s lives through pension uprating train tickets interest rates and the work of economists few people understand how it is created o neill ralph and smith mix historical data with a description of practices inside the uk statistical system and abroad which will aid understanding of how this important economic statistic is produced and the important and controversial choices that statisticians have made over time

**Beyond Measure** 2022-06-02 excerpt from an introduction to the theory of mental and social measurements i had hoped consequently that this book having played a part in stimulating intelligent quantitative work in the mental and social sciences would suffer a natural death it is the case how ever that for the great majority of students of psychology sociology and education the abstract mathematical treatment characteristic of the first two books mentioned is out of question in fact an elementary introduction to the theory of mental measurements treating the simpler general problems in the logic of quantitative thinking is needed now more than ever the increased use of modern methods in measuring conditions differences changes and relations including correlations or resemblances requires that even those students of the mental and social sciences who will themselves never undertake original quantitative work should be able to interpret such results as the modern methods present so this book is reissued about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast

majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

*Beyond Measure: The Hidden History of Measurement from Cubits to Quantum Constants* 2022-11-01 how are we as members of a society informed of conditions that affect our social welfare how does the government register the impact of its actions on its citizens the turbulent 1930s saw the emergence of sample survey research as an increasingly valuable technique of social inquiry perhaps no one championed this nascent discipline as vigorously as herbert hyman one of those pioneering investigators whose talents were so closely associated with the rapid growth of survey research that their professional careers and reputations became virtually indistinguishable from the field itself hyman s personal account is a remarkable contribution to the history and sociology of social research his experiences with the u s department of agriculture the office of war information the u s bombing surveys of germany and japan the national opinion research center and the bureau of applied social research are all documented with fascinating insight into the critical events and prominent individuals that shaped the field of survey research between the late 1930s and the late 1950s

**Systemic Risk: History, Measurement And Regulation** 2019-06-04 this book provides comprehensive coverage of the units in physics and engineering and the international system of units it serves as a useful reference to researchers and engineers

**Precise Dimensions** 2017 this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work was reproduced from the original artifact and remains as true to the original work as possible therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work as a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

Specifications for the Measurement and Recording of Historic American Buildings and Structural Remains 1935 shows that the story of metrology can in the right hands make for a riveting read the economist millions of transactions each day depend on a reliable network of weights and measures but achieving such a network was anything but easy as robert p crease physicist and philosopher demonstrates in this endlessly fascinating always entertaining look at just how this international system evolved from the link between musical pitch and distance in the dynasties of ancient china and the use of figurines to measure gold in west africa to the creation of the french metric and british imperial systems crease takes readers along on one of history s greatest philosophical and scientific adventures

**A History of Light and Colour Measurement** 2015-05-05 this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work was reproduced from the original artifact and remains as true to the original work as possible therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work as a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

**HISTORY AND PHILOSOPHY OF SCIENCE AND TECHNOLOGY -Volume III** 2010-09-27 this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work was reproduced from the original artifact and remains as true to the original work as possible therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work as a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

Evaluating Indices that Measure Departure of Current Landscape Composition from Historical Conditions 2011 excerpt from the nature and purpose of the measurement of social phenomena though public interest has been directed chiefly to the study of the poor with a more or less definite hope of eliminating poverty it is evident that this is only part of the much more general study of society as a whole in all its economic activities and as to all its measurable characteristics no one class and no one aspect of economic life can be isolated this study is entitled to be considered a separate science and might be called simply sociology if that name had not already been chosen to include the knowledge of all group actions and relations past and present measurable or not in order to limit the science one would have to use such a barbarous title as modern statistical sociology and these words express adequately the subject i propose to discuss about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks.com this book is a reproduction of an important historical work forgotten books uses state of the art technology to

digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

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Handbook of the Collections Illustrating Time Measurement: Historical review 1936

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