



# *Archimedes*

*Editor: Jed Z. Buchwald*

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## **Scientific Credibility and Technical Standards**

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# Scientific Credibility And Technical Standards

**Tofigh Heidarzadeh**



## **Scientific Credibility And Technical Standards:**

### **Scientific Credibility and Technical Standards in 19th and early 20th century Germany and Britain** Jed Z.

Buchwald,2012-12-06 The articles in this first volume of ARCHIMEDES explicitly and intentionally cross boundaries between science and technology and they also illuminate one another The first three contributions concern optics and industry in 19th century Germany the fourth concerns electric standards in Germany during the same period the last essay in the volume examines a curious development in the early history of wireless signalling that took place in England and that has much to say about the establishment and enforcement of standard methods in a rapidly developing technology that emerged out of a scientific effect Historical work over the last few decades has shown that technology cannot be characterized simply or even usually as applied science The beliefs the devices and the natural objects that are created or discovered by scientists often play altogether minor roles in the construction of technologies Taking this realization as a given the essays in Scientific Credibility and Technical Standards effectively argue that we must now seek to go beyond it we must also begin to think carefully about the role that science actually did play when it was explicitly deployed by technologists

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*Heinrich Hertz: Classical Physicist, Modern Philosopher* D. Baird,R.I. Hughes,Alfred Nordmann,1998-01-31 The sub title of this symposium is accurate and in a curious way promises more than it states Classical Physicist Modern Philosopher Heinrich Hertz as the consummate experimentalist of 19th century technique and as brilliant clarifying critic of physical theory of his time achieved one of the fulfilments but at the same time opened one of the transition points of classical physics Thus in his popular lecture On the Relations Between Light and Electricity at Heidelberg in the Fall of 1889 Hertz identified the ether as henceforth the most fundamental problem of physics as the conceptual mystery but also the key to understanding mass electric ity and gravity Of Hertz s demonstration of electric waves Helmholtz told the Physical Society of Berlin Gentlemen I have to

communicate to you today the most important physical discovery of the century Hertz philosophizing in his direct lucid pithy style once wrote We have to imagine Perhaps this is metaphysics on the horizon In the early pages of his Principles of Mechanics we read A doubt which makes an impression on our mind cannot be removed by calling it metaphysical every thoughtful mind as such has needs which scientific men are accustomed to denote as metaphysical PM23 And at another place concerning the terms force and electricity and the alleged mystery of their natures Hertz wrote We have an obscure feeling of this and want to have things cleared up

**Reader's Guide to the History of Science** Arne

Hessenbruch,2013-12-16 The Reader's Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn *The Oxford Guide to the History of Physics and Astronomy* J. L. Heilbron,2005-06-03 The entries follow an elaborate organizational plan which amounts to a new classification of knowledge its institutional settings and its applications This plan is reprinted in the opening pages of the Guide Thoroughly cross referenced and accented with attractive black and white artwork no other source is as systematic and authoritative or as informative and inviting in its coverage of physics astronomy and planetary science BOOK JACKET *David Paul von Hanseemann: Contributions to Oncology* Leon P. Bignold,Brian L. D.

Coghlan,Hubertus P.A. Jersmann,2007-02-15 In 1890 just a few years after the discovery of the chromosomes David Paul Hanseemann a pathologist in training with the famous Rudolph Virchow in Berlin produced a theory of the pathogenesis of cancer involving the key current concept that the first change which occurs in cancer is an alteration of the hereditary material of a normal cell at the site where the cancerous process begins In the process of linking cancer to chromosomal material Hanseemann coined the terms anaplasia and dedifferentiation These terms have remained the basis of descriptive terms concerning the microscopical appearances of tumours ever since Nevertheless despite the popularity of his terminology Hanseemann's ideas were attacked vigorously by almost all proponents of rival theories of the nature of cancer Partly due to these disputes during his life time and partly due to other factors interest in von Hanseemann's ideas diminished during the twentieth century and his works are rarely mentioned today This book presents translations of all the relevant German texts and analyses the background and context of Hanseemann's theories as well as the reasons why he was almost completely forgotten It shows that some of Hanseemann's ideas may still be relevant to cancer research today and that he deserves to be remembered in relation to cancer as Vordenker unter den f hrenden Denkern seiner Zeit The foremost of the leading thinkers of his time *Wrong for the Right Reasons* Jed Z. Buchwald,A. Franklin,2006-03-30 The rapidity with which knowledge changes makes much of past science obsolete and often just wrong from the present's point of view We no longer think for example that heat is a material substance transferred from hot to cold bodies But is wrong science always or even

usually bad science The essays in this volume argue by example that much of the past's rejected science wrong in retrospect though it may be and sometimes markedly so was nevertheless sound and exemplary of enduring standards that transcend the particularities of culture and locale New Narratives in Eighteenth-Century Chemistry Lawrence M.

Principe, 2007-09-14 The eighteenth century has long been considered critical for the development of modern chemistry yet many crucial features of the period remain largely unknown or unexplored for general accounts often built around Lavoisier have remained quite selective This volume presents new approaches and topics in an attempt to build a richer fuller more complex view of chemical work during the period Themes include late phase alchemy professionalization chemical education and the links and relations between chemistry and pharmacy medicine agriculture and geology **A History of Physical**

**Theories of Comets, From Aristotle to Whipple** Tofigh Heidarzadeh, 2008-05-23 Although the development of ideas about the motion and trajectory of comets has been investigated piecemeal we lack a comprehensive and detailed survey of physical theories of comets The available works either illustrate relatively short periods in the history of physical cometology or portray a landscape view without adequate details The present study is an attempt to review with more details the major physical theories of comets in the past two millennia from Aristotle to Whipple My research however did not begin with antiquity The basic question from which this project originated was a simple inquiry about the cosmic identity of comets at the dawn of the astronomical revolution how did natural philosophers and astronomers define the nature and place of a new category of celestial objects comets after Brahe's estimation of cometary distances It was from this turning point in the history of cometary theories that I expanded my studies in both the pre modern and modern eras A study starting merely from Brahe and ending with Newton without covering classical and medieval thought about comets would be incomplete and leave the fascinating achievements of post Newtonian cometology unexplored *Sonar to Quartz Clock* Shaul

Katzir, 2023-08-23 *Sonar to Quartz Clock* examines how the unapplied phenomenon of piezoelectricity became applied for technologies such as sonar crystal frequency control the quartz clock and how its research has consequently changed during WWI and the interwar period It aims at reconstructing for the first time the fascinating history of the inventions and the development of these highly important technologies which are still in extensive use and which were crucial for the electronic revolution arguably the most important technological developments of the twentieth century On this basis this book suggests a better and more nuanced understanding of the relationships between modern science and technology and the process of development and innovation of science based technologies It examines in particular the mutual transfer and transformation of knowledge between them including the way physics becomes practically applicable the way applications and societal interests shape technology and science and the differences and similarities between scientific and technological research The book presents an in depth analysis of the scientific and technological research and development in the field and of the evolution of their experimental theoretical and technical aspects within their social military and commercial contexts It offers

an integrative history of science and technology needed to better comprehend their interactions and evolution but rare in current historiography This book will appeal to historians of science and technology sociologists of science and generally scientists and engineers studying or working with piezoelectricity ultrasound devices and crystal frequency control

## The Enigmatic Realm of **Scientific Credibility And Technical Standards**: Unleashing the Language is Inner Magic

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