

nary research on these matters, to bring together his tetrad of population, environment, economy, and culture. I agree; what scientist would not? But I am dubious about the future of such research in this country. U.S. universities and funding agencies have a long tradition of indifference to, or fleeting support of, interdisciplinary work. Foundations value research considerably less than actions. The research Cohen wants done requires "localitis," careful consideration of local conditions and interests, and the involvement of scientists in other countries in mutually beneficial ways. I wonder whether "localitis" will be as bad for academic careers as it used to be for the careers of U.S. diplomats. And the political allure of the global view on population is strong; there will be continued temptation to "fabricate 'unambiguous answers to what appear to be simple questions'" (p. 348).

Analysis aside, the choices that are actually made, and how people are induced to make them, are important issues. In his final chapter, Cohen presents a brief but illuminating discussion of games that points to the importance of cooperation, as opposed to coercion or confrontation. He recommends research on ways to define and demonstrate the mutual benefits that link nations and peoples. This is vital, given the widely held view that relationships between nations are zero-sum games. Such considerations are equally important for relationships between individuals and governments, particularly when human freedoms are often viewed as up for grabs in a larger trade-off justified by appeal to population problems. Cohen notes early on that "tyranny by governments does not work in the long run" (p. 11). He also recommends attention to institutional and political factors that influence the trade-offs between efficiency and inequality. But, like many demographers, he does not discuss coercion when talking about recent declines in China's fertility. I wish he had; scientific work can provide valuable perspective on the limits of authoritarianism.

The last of Cohen's recommendations that I mention here is for work on accounting systems that can incorporate factors usually ignored as externalities but intrinsically important to the quality of life and environment. Externalities play an interesting role in what Stanley Engerman (*Social Science History* 17, 161 [1993]) called the problem of Chicken Little: if the sky is falling, when will it happen? Economists argue that if impending resource limits, say, are going to make the sky fall, we should receive economic signals of impending doom. The absence of such signals is often attributed to unaccounted externalities, usually by people who are not economists. My reading of history is that externalities do force their way into account-

ing systems, as happened with pollution costs in the industrialized countries. Clear scientific recognition of an externality is usually the first step, and comprehensive accounting can provide a way of achieving this recognition.

Cohen shows that there is no direct answer to his title question. Instead the relationship between people and the planet is evolving and complex, deserving of a careful and searching analysis.

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A Physicist in Germany

Heinrich Hertz. A Short Life. CHARLES SUSSKIND. San Francisco Press, San Francisco, CA, 1995. vi, 190 pp., illus., + plates. \$18.25.

Heinrich Hertz was only 31 when he discovered electromagnetic waves in 1888 and only 36 when he died of blood poisoning in January 1894. His was indeed "a short life," but one filled with achievement. He worked at the pinnacle of classical physics, and his discovery of electromagnetic waves not only clinched the case for James Clerk Maxwell's field theory but laid the foundations for technologies that have come to pervade modern life. The son of a leading Hamburg jurist whose own father had converted from Judaism, Hertz was raised in a

dent pride in his achievements was mixed with growing self-doubt, and the upward arc of his career was punctuated by bouts of severe emotional turmoil. In both his successes and his anxieties, he is a fitting representative of German intellectual life in the last quarter of the 19th century.

Charles Susskind, a professor of electrical engineering at Berkeley, opens his tale by telling how he came to write it. While in London in the early 1960s, he learned that Hertz's daughter Mathilde was living in Cambridge, where she, her mother, and her older sister Johanna had settled after leaving Germany in the 1930s. When Susskind paid her a visit in 1968, she pressed him to help her bring out a new edition of the volume of her father's letters and diaries that Johanna had first published in Germany in 1927. Knowing the labor such a project could involve, Susskind hesitated, but Mathilde's charm and determination soon won him over. Their collaborations resulted in 1977 in a beautifully produced edition (also from San Francisco Press) with German and English text on facing pages. Sadly, Mathilde Hertz died just over a year before it appeared.

The present book draws heavily on the earlier volume and to a lesser extent on letters and family papers held in German archives. After the second chapter, which details Hertz's family background and Hamburg milieu, there is relatively little here that is really new. But Susskind tells the story of Hertz's life and work in a lively and accessible way, and his conversations with Mathilde and forays into the archives help him to illuminate some previously dark points. We learn, for example, that Hertz's depression in 1884-85

resulted from a frustrated love affair (though all details have been lost), and excerpts from his correspondence with Emil Cohn in 1889 shed light on his relations with the British Maxwells.

This book is hardly the last word on Hertz. Its vigor fades in the last chapters, and the account of Hertz's final years at Bonn is sketchy and repetitive. Susskind could also have made better use of recent secondary works on Hertz and his contemporaries. But the book succeeds at its main purpose: evoking the character and keeping alive the memory of one whose life was all too short.

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Left, Heinrich Hertz commemorative postage stamp issued by the Federal Republic of Germany shortly after World War II. Right, Hertz as a student. (From *Heinrich Hertz: A Short Life*)



highly cultured home and received an excellent early education. By the time he arrived in Berlin in 1878, he was already emerging as the golden boy of German physics and the chosen favorite of the great Hermann von Helmholtz. Yet Hertz's evi-

Heinrich Hertz A Short Life

Bruce J. Hunt



Heinrich Hertz A Short Life:

Heinrich Hertz Charles Susskind, 1995 *Heinrich Hertz: Classical Physicist, Modern Philosopher* D. Baird, R.I. Hughes, A. Nordmann, 2013-03-14 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 fulfillments 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 electricity 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

Weird Scientists □ the Creators of Quantum Physics Jeffrey Strickland, 2011-09-04 *Weird Scientists* is a sequel to *Men of Manhattan* As I wrote the latter about the nuclear physicists who brought in the era of nuclear power quantum mechanics or quantum physics was unavoidable Many of the contributors to the science of splitting the atom were also contributors to quantum mechanics Atomic physics particle physics quantum physics and even relativity are all interrelated This book is about the men and women who established the science that shook the foundations of classical physics removed determinism from measurement and created alternative worlds of reality The book introduces fundamental concepts of quantum mechanics roughly in the order they were discovered as a launching point for describing the scientist and the work that brought forth the concepts *History of Shock Waves, Explosions and Impact* Peter O. K. Krehl, 2008-09-24 This unique and encyclopedic reference work describes the evolution of the physics of modern shock wave and detonation from the earlier and classical percussion The history of this complex process is first reviewed in a general survey Subsequently the subject is treated in more detail and the book is richly illustrated in the form of a picture gallery This book is ideal for everyone professionally interested in shock wave phenomena Eurekas and Euphorias Walter Gratzer, Walter Bruno Gratzer, 2004 The march of science has never proceeded smoothly It has been marked through the years by episodes of drama and comedy of failure as well as triumph by outrageous strokes of luck deserved and undeserved and sometimes by human tragedy It has seen deep intellectual friendships as well as ferocious animosities and once in a while acts of theft and malice deceit and even a hoax or two Scientists come in all shapes the obsessive and the dilettantish

the genial the envious the preternaturally brilliant and the slow witted who sometimes see further in the end the open minded and the intolerant recluses and arrivistes From the death of Archimedes at the hands of an irritated Roman soldier to the concoction of a superconducting witches brew at the very close of the twentieth century the stories in Eureka's and Euphorias pour out told with wit and relish by Walter Gratzer Open this book at random and you may chance on the clumsy chemist who breaks a thermometer in a reaction vat and finds mercury to be the catalyst that starts the modern dyestuff industry or a famous physicist dissolving his gold Nobel Prize medal in acid to prevent it from falling into the hands of the Nazis recovering it when the war ends mathematicians and physicists diverting themselves in prison cells and even in a madhouse by creating startling advances in their subject We witness the careers sometimes tragic sometimes carefree of the great women mathematicians from Hypatia of Alexandria to Sophie Germain in France and Sonia Kovalevskaya in Russia and Sweden and then Marie Curie's relentless battle with the French Academy Here then a glorious parade unfolds to delight the reader with stories to astonish to instruct and most especially to entertain **Pursuing Power and Light** Bruce J.

Hunt, 2010-04-08 In the nineteenth century science and technology developed a close and continuing relationship The most important advancements in physics the science of energy and the theory of the electromagnetic field were deeply rooted in the new technologies of the steam engine the telegraph and electric power and light Bruce J Hunt here explores how the leading technologies of the industrial age helped reshape modern physics This period marked a watershed in how human beings exerted power over the world around them Sweeping changes in manufacturing transportation and communications transformed the economy society and daily life in ways never before imagined At the same time physical scientists made great strides in the study of energy atoms and electromagnetism Hunt shows how technology informed science and vice versa examining the interaction between steam technology and the formulation of the laws of thermodynamics for example and that between telegraphy and the rise of electrical science Hunt's groundbreaking introduction to the history of physics points to the shift to atomic and quantum physics It closes with a brief look at Albert Einstein's work at the Swiss patent office and the part it played in his formulation of relativity theory Hunt translates his often demanding material into engaging and accessible language suitable for undergraduate students of the history of science and technology *Electromagnetic Field, Health and Environment* A. Krawczyk, R. Kubacki, S. Wiak, 2008-06-02 *Electromagnetic Field Health and Environment* mirrors the image of the EHE 07 conference which attracted people investigating the phenomenon of interaction of electromagnetic field and biological objects This book tries to enlighten the problem with the use of scientifically founded facts kept within methodological discipline The particular targets of the book can be briefly summarized as reviewing presenting and discussing innovations in computer modeling measurement and simulation of bioelectromagnetic phenomena analyzing physical and biological aspects of bioelectromagnetic phenomena and discussing environmental safety and policy issues as well as relevant international standards The book is divided into five chapters of which the first three chapters deal

with the electromagnetic field in combination with environment health and biology respectively The fourth chapter focuses on computer simulation in bioelectromagnetics whereas the fifth chapter sees to the electromagnetic field in policy and standards An additional three contributions are included the first contribution shows the brief essay on Heinrich Rudolf Hertz in which the occasion of his birth 150 years ago is celebrated The second summarizes the long lasting research in magnetic stimulation and bioimaging and the third one considers some theoretical aspects of electromagnetic field

Heinrich Hertz Short Life Charles Susskind, A Natural History of Time Pascal Richet,2009-10-15 The quest to pinpoint the age of the Earth is nearly as old as humanity itself For most of history people trusted mythology or religion to provide the answer even though nature abounds with clues to the past of the Earth and the stars In A Natural History of Time geophysicist Pascal Richet tells the fascinating story of how scientists and philosophers examined those clues and from them built a chronological scale that has made it possible to reconstruct the history of nature itself Richet begins his story with mythological traditions which were heavily influenced by the seasons and almost uniformly viewed time cyclically The linear history promulgated by Judaism with its story of creation was an exception and it was that tradition that drove early Christian attempts to date the Earth For instance in 169 CE the bishop of Antioch for instance declared that the world had been in existence for 5 698 years and the odd months and days Until the mid eighteenth century such natural timescales derived from biblical chronologies prevailed but Richet demonstrates with the Scientific Revolution geological and astronomical evidence for much longer timescales began to accumulate Fossils and the developing science of geology provided compelling evidence for periods of millions and millions of years a scale that even scientists had difficulty grasping By the end of the twentieth century new tools such as radiometric dating had demonstrated that the solar system is four and a half billion years old and the universe itself about twice that though controversial questions remain The quest for time is a story of ingenuity and determination and like a geologist Pascal Richet carefully peels back the strata of that history giving us a chance to marvel at each layer and truly appreciate how far our knowledge and our planet have come

Hypercrime

Michael McGuire,2007-12-06 Hypercrime offers a radical critique of the narrow conceptions of cybercrime offered by current justice systems and challenges the governing presumptions about the nature of the threat posed by it

Physical

Principles of Wireless Communications Victor L. Granatstein,2007-10-29 Wireless communications are based on the launching propagation and detection of electromagnetic waves emitted primarily at radio or microwave frequencies Their history can be traced back to the mid 19th century when James Clerk Maxwell formulated the basic laws of electromagnetism and Heinrich Hertz demonstrated the propagation of radio waves across his laboratory Recent engineering breakthroughs have led to wireless communication systems that have not only revolutionized modern lifestyles but have also launched new industries Based on the author s course in the physics of wireless communications Physical Principles of Wireless Communications provides students with a solid foundation in modern wireless communication systems It offers rigorous

analyses of the devices and physical mechanisms that constitute the physical layers of these systems Starting with a review of Maxwell's equations the textbook details the operation of antennas and antenna arrays teaching students how to perform the necessary design calculations It also explores the propagation of electromagnetic waves leading to important descriptions of mean path loss The text also reviews the principles of probability theory enabling students to calculate the margins that must be allowed to account for statistical variation in path loss In addition it covers the physics of Geostationary Earth Orbiting GEO satellites and Low Earth Orbiting LEO satellites so students may evaluate and make first order designs of satellite communications SATCOM systems

Without Resurrection, There is no Christianity Dr. Octavian Caius Obeada, At the heart of Christianity lies a pivotal claim the resurrection of Jesus Christ This singular event defines the faith and distinguishes it from all other religions philosophies and worldviews Without Resurrection There is no Christianity Challenges and Divisions embarks on an exploratory journey to understand why two millennia later the resurrection remains a beacon of hope for millions a subject of intense scholarly debate and a cornerstone of theological discourse history and faith in profound ways WHERE IS THE PAPERBACK AVAILABLE <https://amzn.to/3XDDa4Y> **Physical Review**, 1896 Vols for 1903 include Proceedings of the American Physical Society **A to Z of Physicists, Updated Edition** Darryl

Leiter, 2019-11-01 A to Z of Physicists Updated Edition focuses not only on the lives and personalities of those profiled but also on their research and contributions to the field A fascinating and important element of this work is the attention paid to the obstacles that minority physicists had to overcome to reach their personal and professional goals Through incidents quotations and photographs the entries portray something of the human face which is often lost in books on science and scientists A to Z of Physicists Updated Edition features more than 150 entries and 51 black and white photographs Culturally inclusive and spanning the whole range of physicists from ancient times to the present day this is an ideal resource for students and general readers interested in the history of physics or the significant aspects of the personal and professional lives of important physicists People covered include Archimedes ca 285-212 BCE Homi Jehangir Bhabha 1909-1966 Pavel Alekseyevich Cherenkov 1904-1990 Marie Curie 1867-1934 George Gamow 1904-1968 Tsung Dao Lee 1926-present Lise Meitner 1878-1968 Yuval Ne'eman 1925-2006 Johannes Stark 1874-1957 Nikola Tesla 1856-1943 Alessandro Volta 1745-1827 Hideki Yukawa 1907-1981

An Analog Electronics Companion Scott Hamilton, 2007-04-26 Engineers and scientists frequently find themselves having to get involved in electronic circuit design even though this may not be their specialty This book is specifically designed for these situations and has two major advantages for the inexperienced designer it assumes little prior knowledge of electronics and it takes a modular approach so you can find just what you need without working through a whole chapter The first three parts of the book start by refreshing the basic mathematics and physics needed to understand circuit design Part four discusses individual components resistors capacitors etc while the final and largest section describes commonly encountered circuit elements such as differentiators oscillators filters and couplers A

major bonus and learning aid is the inclusion of a CD ROM with the student edition of the PSpice simulation software together with models of most of the circuits described in the book

The Signal Ted G Lewis, 2019-06-03 Computers are the foundation of the information age but communication technology is the foundation Without the theories and practical applications of theory brought to us by the pioneers of communication the computer age would perhaps have remained in the back office hidden away as infrastructure like electricity or running water critical to modern life but not as transforming as the combination of communications and computing The information age exploded once machines were endowed with the ability to talk among themselves The Signal connects everything to everything else in both communication and in the metaphorical sense as the link between and among people Features Identifies the key ideas underlying modern communications technology and documents the contributions of its inventors Explores the signal in communication and also in the metaphorical sense as the link between and among people Leads the reader through a journey from ancient number systems to Voyager II to radio and MP3s to quantum cryptography Includes coverage of Signals from Hell including memes and fake news on the Internet Looks to the future of communication with emergent 5G

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

Electrodynamics from Ampère to Einstein Olivier Darrigol, 2003-06-26 This book recounts the developments of fundamental electrodynamics from Ampère's investigation of the forces between electric currents to Einstein's introduction of a new doctrine of space and time The emphasis is on the diverse evolving practices of electrodynamics and the interactions between the corresponding scientific traditions A richly documented clearly written and abundantly illustrated history of the subject

Routledge Encyclopedia of Philosophy: Index Edward Craig, 1998 Volume seven of a ten volume set which provides full and detailed coverage of all aspects of philosophy including information on how philosophy is practiced in different countries who the most influential philosophers were and what the basic concepts are

Communications R. W. Burns, 2004-05-30 This book traces the evolution of communications from 500 BC when fire beacons were used for signalling to the 1940s when high definition television systems were developed for the entertainment education and enlightenment of society

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membrane the cell membrane is semipermeable allowing some substances to pass into the cell and blocking others it is composed of a double layer of phospholipids and embedded proteins color and abe the cell

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