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in the genre." — *New York Times Book Review*

PETER GALISON

EINSTEIN'S CLOCKS,  
POINCARÉ'S MAPS

Empires of Time

# Einsteins Clocks Poincares Maps

**David Stanley Caudill, Lewis H. LaRue**



## **Einsteins Clocks Poincares Maps:**

*Einstein's Clocks, Poincaré's Maps* Peter Galison, 2004 In May 1905 Einstein published his theory of relativity changing time forever This title is a dramatic account of the quest to synchronize time that culminated in the revolutionary theory As Peter Galison argues relativity was borne of urgent practical necessity Clocks and trains telegraphs and colonial conquest the challenges of the late 19th century provided an indispensable real world background to the theoretical breakthrough Europe's burgeoning rail network Only a century ago the continent had hundred of time zones and no universal system for synchronizing them Given that local time could vary from town to town scheduling rail services was hard but vital not least to stop trains from colliding as they hurtled in opposite directions along single tracks In his role as president of the French Bureau of Longitude a remit of which was to map colonial Africa Henri Poincaré grappled with a similar issue Synchronized clocks set by telegraph signal from Paris were necessary to determine longitude and provide the precise coordinates his cartographers needed to tell the story of these two giants whose concrete preoccupations engaged them in a silent race towards a theory that overturned 200 years received thinking **Einstein's Clocks, Poincaré's Maps** Peter Louis Galison, 2003 In May 1905 Albert Einstein changed time forever his theory of relativity had practical consequences that changed the world Only a century ago Europe had a huge number of local time zones and no proper system of synchronizing them This threatened chaos particularly on the railways and communications Synchronized time was necessary to create timetables for passengers and stop trains from crashing as they hurtled in opposite directions along single tracks

*Einstein's Clocks, Poincaré's Maps (George B. Pegram Lecture Series)*. , 2006 In the standard picture of the history of special relativity Einstein's reformulation of simultaneity is considered a quasi philosophical intervention a move made possible by his disconnection from the standard physics and technology of the day Meanwhile Einstein's engagement at the Patent Office enters the story as a lowly day job irrelevant to his work on relativity I argue on the contrary that Einstein's patent work located him squarely in the middle of a wealth of technological developments cultural discussions about the meaning of time and important patents that accompanied the coordination of clocks And Henri Poincaré far from being lost exclusively in the far reaches of abstract mathematics was at the same time profoundly involved with the use of precision coordinated clocks for long distance longitude determination Indeed at a crucial moment in the development of Poincaré's own thoughts on simultaneity he was presiding over the Paris Bureau of Longitude By understanding the history of coordinated clocks Einstein's and Poincaré's work in relativistic physics shines in a very different light the modern of modern physics stood was the intersection of physics technology and philosophy [Einstein's Clocks and Poincaré's Maps: Empires of Time](#) Peter Galison, 2004-09-14 In Galison's telling of science the meters and wires and epoxy and solder come alive as characters along with physicists engineers technicians and others Galison has unearthed fascinating material New York Times **Science Secrets** Alberto A. Martinez, 2011-05-29 Was Darwin really inspired by Galapagos finches Did Einstein's

wife secretly contribute to his theories Did Franklin fly a kite in a thunderstorm Did a falling apple lead Newton to universal gravity Did Galileo drop objects from the Leaning Tower of Pisa Did Einstein really believe in God Science Secrets answers these questions and many others It is a unique study of how myths evolve in the history of science Some tales are partly true others are mostly false yet all illuminate the tension between the need to fairly describe the past and the natural desire to fill in the blanks Energetically narrated Science Secrets pits famous myths against extensive research from primary sources in order to accurately portray important episodes in the sciences Alberto A Martinez analyzes how such myths grow and rescues neglected facts that are more captivating than famous fictions Moreover he shows why opinions that were once secret and seemingly impossible are now scientifically compelling The book includes new findings related to the Copernican revolution alchemy Pythagoras young Einstein and other events and figures in the history of science

**The Many Voices of Modern Physics** Joseph E. Harmon, Alan G. Gross, 2023-03-07 The Many Voices of Modern Physics follows a revolution that began in 1905 when Albert Einstein published papers on special relativity and quantum theory Unlike Newtonian physics this new physics often departs wildly from common sense a radical divorce that presents a unique communicative challenge to physicists when writing for other physicists or for the general public and to journalists and popular science writers as well In their two long careers Joseph Harmon and the late Alan Gross have explored how scientists communicate with each other and with the general public Here they focus not on the history of modern physics but on its communication In their survey of physics communications and related persuasive practices they move from peak to peak of scientific achievement recalling how physicists use the communicative tools available in particular thought experiments analogies visuals and equations to convince others that what they say is not only true but significant that it must be incorporated into the body of scientific and general knowledge Each chapter includes a chorus of voices from the many celebrated physicists who devoted considerable time and ingenuity to communicating their discoveries to the science journalists who made those discoveries accessible to the public and even to philosophers sociologists historians an opera composer and a patent lawyer With their final collaboration Harmon and Gross offer a tribute to the communicative practices of the physicists who convinced their peers and the general public that the universe is a far more bizarre and interesting place than their nineteenth century predecessors imagined

*Connected* Steven Cassedy, 2014-01-01 Between the end of the nineteenth century and the beginning of the twentieth Americans underwent a dramatic transformation in self conception having formerly lived as individuals or members of small communities they now found themselves living in networks which arose out of scientific and technological innovations There were transportation and communication networks There was the network of the globalized marketplace which brought into the American home exotic goods previously affordable to only a few There was the network of standard time which bound together all but the most rural Americans There was the public health movement which joined individuals to their fellow citizens by making everyone responsible for the health of everyone else

There were social networks that joined individuals to their fellows at the municipal state national and global levels Previous histories of this era focus on alienation and dislocation that new technologies caused This book shows that American individuals in this era were more connected to their fellow citizens than ever but by bonds that were distinctly modern

**Horn, or The Counterside of Media** Henning Schmidgen, 2021-11-22 We regularly touch and handle media devices At the same time media devices such as body scanners car seat pressure sensors and smart phones scan and touch us In Horn Henning Schmidgen reflects on the bidirectional nature of touch and the ways in which surfaces constitute sites of mediation between interior and exterior Schmidgen uses the concept of horn whether manifested as a rhinoceros horn or a musical instrument to stand for both natural substances and artificial objects as spaces of tactility He enters into creative dialogue with artists scientists and philosophers ranging from Salvador Dalí William Kentridge and Rebecca Horn to Sigmund Freud Walter Benjamin and Marshall McLuhan who plumb the complex interplay between tactility and technological and biological surfaces Whether analyzing how Dalí conceived of images as tactile entities during his rhinoceros phase or examining the problem of tactility in Thomas Pynchon's *The Crying of Lot 49* Schmidgen reconfigures understandings of the dynamic phenomena of touch in media

Pluralisation and social change Lars Charbonnier, Johan Cilliers, Matthias Mader, Cas Wepener, Birgit Weyel, 2018-09-24 Die Pluralisierung des Religiösen die ein besonders prägnantes Kennzeichen gegenwärtig stattfindender gesellschaftlicher Wandlungsprozesse ist stellt eine enorme Herausforderung für viele Akteure in Kirche Zivilgesellschaft Wirtschaft und Politik dar Das Ziel dieses Buches ist es den Begriff der religiösen Pluralisierung zu schärfen indem er am Beispiel konkreter religiöser Phänomene und Praktiken entfaltet wird Der Band umfasst Beiträge zu zwölf Themenfeldern die für die praktisch theologischen Diskurse in Südafrika und in Deutschland prägend und gegenwärtig von hoher Relevanz sind Armut und Reichtum Bildung Schwellenriten und Passagen Gesundheit Religiöse Vergemeinschaftungen und die Zukunft der Kirche Lebensanfang und Lebensende Medienwandel Migration und Interkulturalität Populismus und Radikalisierung Religion und Wissen Umgang mit Vergangenheit Zusammenleben Mit diesem dialogischen Verfahren wird ein Beitrag zu einer kontextuellen Theologie geleistet die Theologie wesentlich als Gespräch versteht Die Pluralisierungsthematik hilft Impulse für eine kreativ konstruktive Gestaltung von Pluralität im Sinne eines theologisch reflektierten Pluralismus bereit die für Kirche und Gesellschaft im 21. Jahrhundert wegweisend sein kann

William Kentridge & Peter L. Galison Peter L. Galison, William Kentridge, 2011-06-10 Unsere Auffassungen von Zeit verändern sich fortwährend auf vielschichtige Art und Weise Dies ist eine Untersuchung dieser Verschiebungen und Kämpfe in Form von Zeichnungen und Texten Musik und Bewegung bis hin zu Filmen und Konzepten Gegen Ende des 19. Jahrhunderts wurde Zeit bergreifend organisiert Dürfer Städtchen ganze Länder wurden ihrer eigenen Zeit beraubt als die Uhren mithilfe von Signalen synchronisiert wurden Albert Einstein stieß mit seiner radikalen Idee die die Vorstellung eines überallhervorkommenden Tiktaks zugunsten von Zeiten die nicht Zeit sind auf erbitterten Widerstand Auch in unserem eigenen Zeitalter

wird die Zeit wieder durcheinandergewirbelt die Zeit wird mit Informationen gekreuzt sie wird herausgefordert am Horizont Schwarzer L cher oder sogar von vielen Stringtheoretikern als pure Illusion dargestellt In einer kongenialen langfristigen Partnerschaft mit Peter L Galison Historiker Autor Filmemacher sowie Professor f r die Geschichte der Wissenschaften und der Physik an der Harvard University widmet sich der s dafrikanische K nstler William Kentridge der Erforschung dieser Ideen in Die Ablehnung der Zeit ein Projekt f r die dOCUMENTA 13 in dessen Entstehen das vorliegende Notizbuch Einblick gew hrt Sprache Deutsch Englisch William Kentridge 1955 in Johannesburg S dafrika schloss 1976 ein Studium der Politik und Afrikanistik an der Witwatersrand Universit t in Johannesburg ab 1976 1978 studierte er Druckgrafik an der Johannesburg Art Foundation 1981 82 nahm er an der cole internationale de th tre Jacques Lecog in Paris Pantomime und Schauspielunterricht Seit den 1980er Jahren wurde sein Werk in zahlreichen Einzel und Gruppenausstellungen gezeigt F nf Themen etwa war 2010 am MoMA New York dem Jeu de Paume Paris und an der Albertina Wien zu sehen Kentridge war Teilnehmer der documenta X 1997 sowie der Documenta11 2002 und ist auch auf der dOCUMENTA 13 2012 vertreten Er wurde mit verschiedenen Preisen ausgezeichnet darunter 2003 mit dem Kaiserring der Stadt Goslar 2010 mit dem Kyoto Preis f r Kunst und Philosophie Der K nstler lebt und arbeitet in Johannesburg Stand Juni 2012 William Kentridge 1955 in Johannesburg S dafrika schloss 1976 ein Studium der Politik und Afrikanistik an der Witwatersrand Universit t in Johannesburg ab 1976 1978 studierte er Druckgrafik an der Johannesburg Art Foundation 1981 82 nahm er an der cole internationale de th tre Jacques Lecog in Paris Pantomime und Schauspielunterricht Seit den 1980er Jahren wurde sein Werk in zahlreichen Einzel und Gruppenausstellungen gezeigt F nf Themen etwa war 2010 am MoMA New York dem Jeu de Paume Paris und an der Albertina Wien zu sehen Kentridge war Teilnehmer der documenta X 1997 sowie der Documenta11 2002 und ist auch auf der dOCUMENTA 13 2012 vertreten Er wurde mit verschiedenen Preisen ausgezeichnet darunter 2003 mit dem Kaiserring der Stadt Goslar 2010 mit dem Kyoto Preis f r Kunst und Philosophie Der K nstler lebt und arbeitet in Johannesburg Stand Juni 2012

**No Magic Wand** David Stanley Caudill, Lewis H. LaRue, 2006 Since 1993 Supreme Court precedent has asked judges to serve as gatekeepers to their expert witnesses admitting only reliable scientific testimony Lacking a strong background in science however some judges admit dubious scientific testimony packages by articulate practitioners while others reject reliable evidence that is unreasonably portrayed as full of holes Seeking a balance between undue deference and undeserved skepticism Caudill and LaRue draw on the philosophy of science to help judges juries and advocates better understand its goals and limitations

**The Crisis of Progress** John C. Caiazza, 2017-07-05 This book is about the concept of progress its separate varieties its current rejection and how it may be reconsidered from a philosophical and scientific basis John C Caiazza s main emphasis is on how science is understood as it has a direct impact on social values as expressed by prominent philosophers He argues that progress is at a standstill which presents a crisis for Western civilization Caiazza presents historical examples both of scientific inquiry and social and cultural themes to examine the

subject of progress Beginning with the Whig model and progressive political values exemplified by Bacon and Dewey he also examines other variations the Enlightenment cosmopolitanism and totalitarianism Technology argues Caiazza also has a stultifying effect on Western culture and to understand the idea of progress we must take a philosophic rather than a scientific point of view Modern cosmology has inevitable humanistic and theological implications and major contemporary philosophers reject social science in favour of ancient concepts of virtue and ethics In the end Caiazza writes that time is an agent not a neutral plain on which scientific and historical events occur We can expect technology to keep us in stasis or become aware of the possibility of transcendence This book will be of interest for students of scientific history and philosophy

**The Phenomenology of Real and Virtual Places** Erik Malcolm Champion, 2018-10-26 This collection of essays explores the history implications and usefulness of phenomenology for the study of real and virtual places While the influence of phenomenology on architecture and urban design has been widely acknowledged its effect on the design of virtual places and environments has yet to be exposed to critical reflection These essays from philosophers cultural geographers designers architects and archaeologists advance the connection between phenomenology and the study of place The book features historical interpretations on this topic as well as context specific and place centric applications that will appeal to a wide range of scholars across disciplinary boundaries The ultimate aim of this book is to provide more helpful and precise definitions of phenomenology that shed light on its growth as a philosophical framework and on its development in other disciplines concerned with the experience of place

Objectivity Lorraine Daston, Peter L. Galison, 2021-02-02 Objectivity has a history and it is full of surprises In Objectivity Lorraine Daston and Peter Galison chart the emergence of objectivity in the mid nineteenth century sciences and show how the concept differs from alternatives truth to nature and trained judgment This is a story of lofty epistemic ideals fused with workaday practices in the making of scientific images From the eighteenth through the early twenty first centuries the images that reveal the deepest commitments of the empirical sciences from anatomy to crystallography are those featured in scientific atlases the compendia that teach practitioners of a discipline what is worth looking at and how to look at it Atlas images define the working objects of the sciences of the eye snowflakes galaxies skeletons even elementary particles Galison and Daston use atlas images to uncover a hidden history of scientific objectivity and its rivals Whether an atlas maker idealizes an image to capture the essentials in the name of truth to nature or refuses to erase even the most incidental detail in the name of objectivity or highlights patterns in the name of trained judgment is a decision enforced by an ethos as well as by an epistemology As Daston and Galison argue atlases shape the subjects as well as the objects of science To pursue objectivity or truth to nature or trained judgment is simultaneously to cultivate a distinctive scientific self wherein knowing and knower converge Moreover the very point at which they visibly converge is in the very act of seeing not as a separate individual but as a member of a particular scientific community Embedded in the atlas image therefore are the traces of consequential choices about knowledge persona and collective sight

Objectivity is a book addressed to any one interested in the elusive and crucial notion of objectivity and in what it means to peer into the world scientifically      *Networking Operatic Italy* Francesca Vella, 2022-01-26 A study of the networks of opera production and critical discourse that shaped Italian cultural identity during and after Unification Opera's role in shaping Italian identity has long fascinated both critics and scholars Whereas the romance of the Risorgimento once spurred analyses of how individual works and styles grew out of and fostered specifically Italian sensibilities and modes of address more recently scholars have discovered the ways in which opera has animated Italians social and cultural life in myriad different local contexts In *Networking Operatic Italy* Francesca Vella reexamines this much debated topic by exploring how where and why opera traveled on the mid nineteenth century peninsula and what this mobility meant for opera Italian cities and Italy alike Focusing on the 1850s to the 1870s Vella attends to opera's encounters with new technologies of transportation and communication as well as its continued dissemination through newspapers wind bands and singing human bodies Ultimately this book sheds light on the vibrancy and complexity of nineteenth century Italian operatic cultures challenging many of our assumptions about an often exoticized country      Science John Michels (Journalist), 2003      American Scientist, 2003

**The New Atlantis**, 2008      Einstein's Nobel Prize Aant Elzinga, 2006 In essence Einstein did not win the Nobel Prize in Physics for 1921 for developing the theory of relativity Instead the committee in charge considered his work on the photoelectric effect more worthy of attention Here Elzinga history of ideas and history of science emeritus U of Goteborg working from his research in the Nobel archives of the Royal Swedish Academy of Sciences describes the complex story of how and why Einstein received the award having been nominated 60 times from 1910 to 1922 He explores the possibilities of who and what were responsible for the sole successful nomination the scientific community's skepticism about relativity the role philosophy politics and culture had in science in the cold war after the First World War and what it was about Einstein himself that may have encouraged or discouraged the committee      Choice, 2005



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