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MEMORANDUM

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Physical Sciences Physics PFebruary March 2015

Memorandum

Ying-Ying Zheng



Physical Sciences Physics February March 2015 Memorandum:

A History of Scientific Journals Aileen Fyfe, Noah Moxham, Julie McDougall-Waters, Camilla Mørk Røstvik, 2022-10-03

Modern scientific research has changed so much since Isaac Newton's day it is more professional collaborative and international with more complicated equipment and a more diverse community of researchers Yet the use of scientific journals to report share and store results is a thread that runs through the history of science from Newton's day to ours Scientific journals are now central to academic research and careers Their editorial and peer review processes act as a check on new claims and findings and researchers build their careers on the list of journal articles they have published The journal that reported Newton's optical experiments still exists First published in 1665 and now fully digital the Philosophical Transactions has carried papers by Charles Darwin Dorothy Hodgkin and Stephen Hawking It is now one of eleven journals published by the Royal Society of London Unrivalled insights from the Royal Society's comprehensive archives have enabled the authors to investigate more than 350 years of scientific journal publishing The editorial management business practices and financial difficulties of the Philosophical Transactions and its sibling Proceedings reveal the meaning and purpose of journals in a changing scientific community At a time when we are surrounded by calls to reform the academic publishing system it has never been more urgent that we understand its history

Investing in Science Massimo Florio, 2019-10-15 A proposal for using cost benefit analysis to evaluate the socioeconomic impact of public investment in large scientific projects Large particle accelerators outer space probes genomics platforms all are scientific enterprises managed through the new form of the research infrastructure in which communities of scientists collaborate across nations universities research institutions and disciplines Such large projects are often publicly funded with no accepted way to measure the benefits to society of these investments In this book Massimo Florio suggests the use of cost benefit analysis CBA to evaluate the socioeconomic impact of public investment in large and costly scientific projects The core concept of CBA of any infrastructure is to undertake the consistent intertemporal accounting of social welfare effects using the available information Florio develops a simple framework for such accounting in the research infrastructure context and then offers a systematic analysis of the benefits in terms of the social agents involved He measures the benefits to scientists students and postdoctoral researchers the effect on firms of knowledge spillovers the benefits to users of information technology and science based innovation the welfare effects on the general public of cultural services provided by RIs and the willingness of taxpayers to fund scientific knowledge creation Finally Florio shows how these costs and benefits can be expressed in the form of stochastic net present value and other summary indicators

Plant Defense Mechanisms Joseph N. Kimatu, 2022-06-28 Recent human migrations technological advances agricultural activities and climate change induced phenomenon have forced plants to increasingly adapt to new environments This book highlights current morphological anatomical physiological molecular and genomic advances in plant defense mechanisms These advances including epigenetic

mechanisms have been linked to observed phenotypic plant plasticity Researchers have found intriguing plant interactions and novel mechanisms which have increased our understanding of how sessile plants adapt to and thrive in challenging environments The studies in this book consider the resilience and sustainability of plant genomes and epigenomes and the role they will play in the next generation of food systems **Energy Research Abstracts** ,1990 *Nuclear Science Abstracts* ,1953 Tunnel Visions Michael Riordan,Lilian Hoddeson,Arienne W. Kolb,2015-11-20 A detailed and engaging account of the development of the superconducting supercollider one of the largest scientific undertakings in the United States Journal of American History Starting in the 1950s US physicists dominated the search for elementary particles aided by the association of this research with national security they held this position for decades In an effort to maintain their hegemony and track down the elusive Higgs boson they convinced President Reagan and Congress to support construction of the multibillion dollar Superconducting Super Collider project in Texas the largest basic science project ever attempted But after the Cold War ended and the estimated SSC cost surpassed ten billion dollars Congress terminated the project in October 1993 Drawing on extensive archival research contemporaneous press accounts and over one hundred interviews with scientists engineers government officials and others involved Tunnel Visions tells the riveting story of the aborted SSC project The authors examine the complex interrelated causes for its demise including problems of large project management continuing cost overruns and lack of foreign contributions In doing so they ask whether Big Science has become too large and expensive including whether academic scientists and their government overseers can effectively manage such an enormous undertaking Focusing on the scientific technical and political conflicts that led to delays ever rising costs and eventually the SSC s cancelation by Congress Tunnel Visions is a true techno thriller Burton Richter winner of the Nobel Prize in Physics Most good science stories are tales of discovery and success but failure can be just as riveting Here two historians and an archivist describe the greatest particle physics experiment that never was Scientific American

Property Rights in Outer Space Matthew Johnson,2024-05-28 This book explores the role of private mining rights in the utopian imaginary of space colonisation It presents a transdisciplinary account of the new and evolving legislative frameworks that have been established in anticipation of commercial exploitation of the mineral resources of the off world frontier Written in an engaging style the book investigates a novel case study in the history of capitalism and the commons the emergence of a nascent space mining industry undergirded by a contentious legislative framework In 2015 the US passed laws that would recognise the claims of US corporations to own and sell space resources This unilateral act of pre emptive law making would appear to contravene the terms of the UN Outer Space Treaty 1967 which declared that the exploration and use of outer space should be for the benefit of all mankind and not subject to national appropriation Using this central dynamic between privately held mining rights and outer space as a global commons Matthew Johnson constructs an historical sociology of space mining from the deep historical roots of common and private property to the contemporary

networks of neoliberalism that have engaged with the commercialisation of space activity The anticipatory expansion of private property claims beyond the Earth both resonates with and problematises the terrain of political history such as the tensions between states and markets public law and private power the commons and exclusive property The emerging cosmopolitics of off world private property mirrors and is often explicitly embedded within neoliberal geopolitics prompting urgent questions about how we can reaffirm principles of democracy and common heritage in the international laws of Earth and space This book is compelling reading for anyone interested in the social study of space law economics technology politics and property rights

Physical Principles of Astronomical Instrumentation Peter A. R. Ade, Matthew J. Griffin, Carole E. Tucker, 2021-11-15 Offering practical advice on a range of wavelengths this highly accessible and self contained book presents a broad overview of astronomical instrumentation techniques and tools Drawing on the notes and lessons of the authors established graduate course the text reviews basic concepts in astrophysics spectroscopy and signal analysis It includes illustrative problems and case studies and aims to provide readers with a toolbox for observational capabilities across the electromagnetic spectrum and the knowledge to understand which tools are best suited to different observations It is an ideal guide for undergraduates and graduates studying astronomy Features Presents a self contained account of a highly complex subject Offers practical advice and instruction on a wide range of wavelengths and tools Includes case studies and problems for further learning opportunities Solutions Manual available upon qualifying course adoption

Solid State Insurrection Joseph D. Martin, 2018-09-07 Solid state physics the study of the physical properties of solid matter was the most populous subfield of Cold War American physics Despite prolific contributions to consumer and medical technology such as the transistor and magnetic resonance imaging it garnered less professional prestige and public attention than nuclear and particle physics Solid State Insurrection argues that solid state physics was essential to securing the vast social political and financial capital Cold War physics enjoyed in the twentieth century Solid state s technological bent and its challenge to the pure science ideal many physicists cherished helped physics as a whole respond more readily to Cold War social political and economic pressures Its research kept physics economically and technologically relevant sustaining its cultural standing and policy influence long after the sheen of the Manhattan Project had faded With this book Joseph D Martin brings a new perspective to some of the most enduring questions about the role of physics in American history

Space Physics and Aeronomy, Ionosphere Dynamics and Applications Chao Huang, Gang Lu, 2021-05-11 A comprehensive review of global ionospheric research from the polar caps to equatorial regions It s more than a century since scientists first identified the ionosphere the layer of the Earth s upper atmosphere that is ionized by solar and cosmic radiation Our understanding of this dynamic part of the near Earth space environment has greatly advanced in recent years thanks to new observational technologies improved numerical models and powerful computing capabilities Ionosphere Dynamics and Applications provides a comprehensive overview of historic developments recent advances and future directions in

ionospheric research Volume highlights include Behavior of the ionosphere in different regions from the poles to the equator Distinct characteristics of the high mid and low latitude ionosphere Observational results from ground and space based instruments Ionospheric impacts on radio signals and satellite operations How earthquakes and tsunamis on Earth cause disturbances in the ionosphere The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals Find out more about the Space Physics and Aeronomy collection in this Q A with the Editors in Chief

Scientific and Technical Aerospace Reports ,1989 *Cold War Museology* Jessica Douthwaite,Holger Nehring,Samuel J.M.M. Alberti,2024-11-27 Cold War Museology is the first volume to bring together interdisciplinary and international contributions from leading practitioners and academics specialising in Cold War museology Bringing the most recent historiography of the Cold War into conversation with museological theory and practice chapters within the volume analyse the current condition of Cold War museology By unpicking some of the unique challenges facing museum specialists dealing with the Cold War this book takes a lead in developing the collection display and interpretation of this history The chapters question what makes a Cold War object address the complexity of Cold War time face up to questions of Cold War race gender and imperialism and reveal how to materialise the Cold War imaginary in museums Most importantly perhaps the volume demonstrates that a consideration of the interconnecting forces of global twentieth century history enables experts to add important complexity and nuance to the narratives with which they work and improve visitor understandings through innovative interpretations Cold War Museology will encourage readers towards a more nuanced holistic and inclusive approach to Cold War materiality in museums It will be of great interest to academics museum professionals and students engaged in the study of museums heritage and the Cold War as well as those with an interest in archaeology media culture and memory CRREL Technical Publications, 1950-1975 Cold Regions Research and Engineering Laboratory (U.S.),1992 *Radar in Meteorology* David Atlas,2015-03-30 This fully illustrated volume covers the history of radar meteorology deals with the issues in the field from both the operational and the scientific viewpoint and looks ahead to future issues and how they will affect the current atmosphere With over 200 contributors the volume is a product of the entire community and represents an unprecedented compendium of knowledge in the field *Geoengineering our Climate?* Jason J. Blackstock,Sean Low,2018-09-04 If the detrimental impacts of human induced climate change continue to mount technologies for geoengineering our climate i e deliberate modifying of the Earth s climate system at a large scale are likely to receive ever greater attention from countries and societies worldwide Geoengineering technologies could have profound ramifications for our societies and yet agreeing on an international governance framework in which even serious research into these planetary altering technologies can take place presents an immense international political challenge In this important book a diverse collection of internationally respected scientists philosophers legal scholars policymakers and civil

society representatives examine and reflect upon the global geoengineering debate they have helped shape Opening with essays examining the historic origins of contemporary geoengineering ideas the book goes on to explore varying perspectives from across the first decade of this global discourse since 2006 These essays methodically cover the practical and ethical dilemmas geoengineering poses the evolving geoengineering research agenda the challenges geoengineering technologies present to current international legal and political frameworks and differing perceptions of geoengineering from around the world The book concludes with a series of forward looking essays some drawing lessons from precedents for governing other global issues others proposing how geoengineering technologies might be governed if as they begin to emerge from the lab into the real world This book is an indispensable resource for scientists activists policymakers and political figures aiming to engage in the emerging debate about geoengineering our climate

Multiphase Particulate Systems in Turbulent Flows Wioletta Podgorska, 2019-09-17 Multiphase Particulate Systems in Turbulent Flows Fluid Liquid and Solid Liquid Liquid Dispersions provides methods necessary to analyze complex particulate systems and related phenomena including physical chemical and mathematical description of fundamental processes influencing crystal size and shape suspension rheology interfacial area of drops and bubbles in extractors and bubble columns Examples of mathematical model formulation for different processes taking place in such systems is shown Discussing connections between turbulent mixing mechanisms and precipitation it discusses influence of fine scale structure of turbulence including its intermittent character on breakage of drops bubbles cells plant cell aggregates An important aspect of the mathematical modeling presented in the book is multi fractal taking into account the influence of internal intermittency on different phenomena Key Features Provides detailed descriptions of dispersion processes in turbulent flow interactions between dispersed entities and continuous phase in a single volume Includes simulation models and validation experiments for liquid liquid gas liquid and solid liquid dispersions in turbulent flows Helps reader learn formulation of mathematical models of breakage or aggregation processes using multifractal theory Explains how to solve different forms of population balance equations Presents a combination of theoretical and engineering approaches to particulate systems along with discussion of related diversity with exercises and case studies

The Mathematics of Secrets Joshua Holden, 2018-10-02 Explaining the mathematics of cryptography The Mathematics of Secrets takes readers on a fascinating tour of the mathematics behind cryptography the science of sending secret messages Using a wide range of historical anecdotes and real world examples Joshua Holden shows how mathematical principles underpin the ways that different codes and ciphers work He focuses on both code making and code breaking and discusses most of the ancient and modern ciphers that are currently known He begins by looking at substitution ciphers and then discusses how to introduce flexibility and additional notation Holden goes on to explore polyalphabetic substitution ciphers transposition ciphers connections between ciphers and computer encryption stream ciphers public key ciphers and ciphers involving exponentiation He concludes by looking at the future of ciphers and where cryptography might be headed The

Mathematics of Secrets reveals the mathematics working stealthily in the science of coded messages A blog describing new developments and historical discoveries in cryptography related to the material in this book is accessible at <http://press.princeton.edu/titles/10826.html>

The Power of Reason 1988 Lyndon H. LaRouche, Jr., 2015-09-02 From the Author's Foreword 1987 During the course of the past nearly twenty years I have become perhaps the most controversial among the influential international figures of this decade Unlike all of the other leading candidates for the U S presidency since 1945 I am an influential original thinker This is not to suggest that such prospective candidates as Vice President George Bush and Senator Robert Dole are lacking in intelligence or executive abilities For the past forty years the successful candidates for the presidency have been persons who in the customary manner of speaking advanced their political career up to that point by doing the right thing at the right time saying and doing nothing which will make enemies among important factions of the establishment Bush and Dole for example have adapted to those rules for success under ordinary conditions However this is a crisis in such crises what is customarily successful becomes a failure Our nation has once again entered into a time when only the unusual succeeds and the usual fails We have entered into a period of crisis in which only original thinkers are qualified to lead On paper our nation is a constitutional democratic republic In reality it has not been such a republic for approximately one hundred years certainly not since the sweeping changes in our form of government introduced during the presidency of Theodore Roosevelt Most of the time the policies of government the selection of most leading candidates for federal office and the majority of popular opinion have been regulated by behind the scenes committees representing what is called the establishment Under this arrangement candidates for leading office present themselves like job applicants for corporate executive appointments to this establishment The establishment either gives such candidates permission to campaign or not at this time If given such permission the candidate so authorized seeks backing for his or her election by the establishment by proving to the establishment that he or she can sell the policy which the establishment has decided to push at that time I began to understand this in 1947 I wished General Dwight Eisenhower to campaign for the 1948 Democratic nomination The general replied to me stating agreement with my policy arguments in support of his candidacy but informing me his candidacy was not appropriate at that time There is no doubt that Eisenhower could have won the 1948 nomination and election by a landslide had the establishment permitted him to campaign

[Subject Guide to Books in Print](#) , 1997

The World of Isaac Newton Toni Mount, 2020-10-15 Isaac Newton and the England he knew the people places and events that shaped history's greatest scientist

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