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**PHYSICAL SCIENCES: CHEMISTRY (P2)  
FISIESE WETENSKAPPE: CHEMIE (V2)**

**FEBRUARY/MARCH 2015/FEBRUARIE/MAART 2015**

**MEMORANDUM**

**MARKS/PUNTE: 150**

**This memorandum consists of 15 pages.  
*Hierdie memorandum bestaan uit 15 bladsye.***

# Physical Sciences Physics PFebruary March 2015

## Memorandum

**K Morrison**



## **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

**Quantum Legacies** David Kaiser, 2020-03-25 A series of engaging essays that explore iconic moments of discovery and debate in physicists' ongoing quest to understand the quantum world The ideas at the root of quantum theory remain stubbornly famously bizarre a solid world reduced to puffs of probability particles that tunnel through walls cats suspended in zombielike states neither alive nor dead and twinned particles that share entangled fates For more than a century physicists have grappled with these conceptual uncertainties while enmeshed in the larger uncertainties of the social and political worlds around them a time pocked by the rise of fascism cataclysmic world wars and a new nuclear age In *Quantum Legacies* David Kaiser introduces readers to iconic episodes in physicists' still unfolding quest to understand space time and matter at their most fundamental In a series of vibrant essays Kaiser takes us inside moments of discovery and debate among the great minds of the era Albert Einstein Erwin Schrödinger Stephen Hawking and many more who have indelibly shaped our understanding of nature as they have tried to make sense of a messy world Ranging across space and time the episodes span the heady 1920s the dark days of the 1930s the turbulence of the Cold War and the peculiar political realities that followed In those eras as in our own researchers' ambition has often been to transcend the vagaries of here and now to contribute lasting insights into how the world works that might reach beyond a given researcher's limited view In *Quantum Legacies* Kaiser unveils the difficult and unsteady work required to forge some shared understanding between individuals and across generations and in doing so he illuminates the deep ties between scientific exploration and the human condition

Commerce, Justice, Science, and Related Agencies Appropriations for 2015 United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice,

Science, and Related Agencies,2014      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 Josphert 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      **How Knowledge Moves** John Krige,2019-01-25 Knowledge matters and states have a stake in managing its movement to protect a variety of local and national interests The view that knowledge circulates by itself in a flat world unimpeded by national boundaries is a myth The transnational movement of knowledge is a social accomplishment requiring negotiation accommodation and adaptation to the specificities of local contexts This volume of essays by historians of science and technology breaks the national framework in which histories are often written Instead How Knowledge Moves takes knowledge as its central object with the goal of unraveling the relationships among people ideas and things that arise when they cross national borders This specialized knowledge is located at multiple sites and moves across borders via a dazzling array of channels embedded in heads and hands in artifacts and in texts In the United States it shapes policies for visas export controls and nuclear weapons proliferation in Algeria it enhances the production of oranges by colonial settlers in Vietnam it facilitates the exploitation of a river delta In India it transforms modes of agricultural production It implants

American values in Latin America By concentrating on the conditions that allow for knowledge movement these essays explore travel and exchange in face to face encounters and show how border crossings mobilize extensive bureaucratic technologies Commerce, Justice, Science, and Related Agencies Appropriations for 2017: Justification of the budget estimates United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies,2016 *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 *Climate Change 2021 - The Physical Science Basis* Intergovernmental Panel on Climate Change (IPCC),2023-07-26 The Working Group I contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change IPCC provides a comprehensive assessment of the physical science basis of climate change It considers in situ and remote observations paleoclimate information understanding of climate drivers and physical chemical and biological processes and feedbacks global and regional climate modelling advances in methods of analyses and insights from climate services It assesses the current state of the climate human influence on climate in all regions future climate change including sea level rise global warming effects including extremes climate information for risk assessment and regional adaptation limiting climate change by reaching net zero carbon dioxide emissions and reducing other greenhouse gas emissions and benefits for air quality The report serves policymakers decision makers stakeholders and all interested parties with the latest policy relevant information on climate change Available as Open Access on Cambridge Core **Scientists' Expertise as Performance** Joris

Vandendriessche,Evert Peeters,Kaat Wils,2015-10-06 The essays in this collection explore our reliance on experts within a historical context and across a wide range of fields including agriculture engineering health sciences and labour management Contributors argue that experts were highly aware of their audiences and used performance to gain both scientific and popular support     Nuclear Science Abstracts ,1953     **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     *A First Course in Dimensional Analysis* Juan G. Santiago,2019-10-22 An introduction to dimensional analysis a method of scientific analysis used to investigate and simplify complex physical phenomena demonstrated through a series of engaging examples This book offers an introduction to dimensional analysis a powerful method of scientific analysis used to investigate and simplify complex physical phenomena The method enables bold approximations and the generation of testable hypotheses The book explains these analyses through a series of entertaining applications students will learn to analyze for example the limits of world record weight lifters the distance an electric submarine can travel how an upside down pendulum is similar to a running velociraptor and the number of Olympic rowers required to double boat speed The book introduces the approach through easy to follow step by step methods that show how to identify the essential variables describing a complex problem explore the dimensions of the problem and recast it to reduce complexity leverage physical insights and experimental observations to further reduce complexity form testable scientific hypotheses combine experiments and analysis to solve a

problem and collapse and present experimental measurements in a compact form Each chapter ends with a summary and problems for students to solve Taken together the analyses and examples demonstrate the value of dimensional analysis and provide guidance on how to combine and enhance dimensional analysis with physical insights The book can be used by undergraduate students in physics engineering chemistry biology sports science and astronomy

**75 Years Aloft: Royal Australian Air Force Air Training Corps: Australian Air Force Cadets, 1941-2016** Matthew Glozier, 2015-12-03 This book celebrates 75 years of Air Force cadet activity in Australia 1941 2016 The organisation has had a tremendous impact upon the lives of tens of thousands of Australians over our 75 year history Since 1982 it has enhanced the lives of young women as well as men The book begins in WWII with the need to pre train capable and committed keen lads Over 30 000 Australian boys were air cadets 1941 1945 with almost 13 000 going on to active service in the war Air Force cadets survived into peacetime to become an aviation focussed youth development organisation providing flying training in a military atmosphere with the aim of inspiring cadets to join the RAAF There are currently over 8 000 Air Force cadets and adult staff around Australia Aviation centred youth development in a RAAF service environment remains our central focus

The Princeton Companion to Applied Mathematics Nicholas J. Higham, Mark R. Dennis, Paul Glendinning, Paul A. Martin, Fadil Santosa, Jared Tanner, 2015-09-15 The must have compendium on applied mathematics This is the most authoritative and accessible single volume reference book on applied mathematics Featuring numerous entries by leading experts and organized thematically it introduces readers to applied mathematics and its uses explains key concepts describes important equations laws and functions looks at exciting areas of research covers modeling and simulation explores areas of application and more Modeled on the popular Princeton Companion to Mathematics this volume is an indispensable resource for undergraduate and graduate students researchers and practitioners in other disciplines seeking a user friendly reference book on applied mathematics Features nearly 200 entries organized thematically and written by an international team of distinguished contributors Presents the major ideas and branches of applied mathematics in a clear and accessible way Explains important mathematical concepts methods equations and applications Introduces the language of applied mathematics and the goals of applied mathematical research Gives a wide range of examples of mathematical modeling Covers continuum mechanics dynamical systems numerical analysis discrete and combinatorial mathematics mathematical physics and much more Explores the connections between applied mathematics and other disciplines Includes suggestions for further reading cross references and a comprehensive index

*Solar Surveyors* Peter Bond, 2022-07-29 This is the story of humankind's quest over centuries to learn the true nature of the most dominant object in our Solar System the Sun Award winning science writer Peter Bond describes in detail how our ideas about the Sun have changed over the millennia starting with the simple observations of classical astronomy and continuing through telescopic observations to the age of nuclear physics He shows how we discovered the Sun's basic characteristics its distance size temperature and composition and then

describes how with evermore sophisticated instruments we have learned about the Sun's enormous energy output its atmosphere and the explosive eruptions that blast clouds of magnetized gas and high energy particles toward our world Most of this book focuses on the Space Age when suborbital rockets and satellites have probed every aspect of our nearby star Each of these missions is described in detail with summaries of their objectives spacecraft designs scientific payloads and results The book also looks forward describing forthcoming missions that will shed new light on remaining solar mysteries notably the source of the energy that heats the outer corona to millions of degrees Richly illustrated with mission photos design diagrams and infocharts this book is a fascinating read for anybody interested in the Sun and our attempts to unravel its secrets

**Scientific and Technical Aerospace Reports**, 1994      **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      **Accessory to War: The Unspoken Alliance Between Astrophysics and the Military** Neil deGrasse Tyson, Avis Lang, 2018-09-11 Extraordinary A feast of history an expert tour through thousands of years of war and conquest Jennifer Carson New York Times Book Review In this far reaching foray into the millennia long relationship between science and military power acclaimed astrophysicist Neil deGrasse Tyson and co author Avis Lang examine how the methods and tools of astrophysics have been enlisted in the service of war Spanning early celestial navigation to satellite enabled warfare Accessory to War is a richly researched and provocative examination of the intersection of science technology industry and power that will introduce Tyson's millions of fans to yet another dimension of how the universe has shaped our lives and our world      **River Plumes and Estuaries** Alexander Osadchiv, Alexander Yankovsky, 2022-09-01



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