



basic education

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MEMORANDUM

MARKS/PUNTE: 150

**This memorandum consists of 21 pages.
*Hierdie memorandum bestaan uit 21 bladsye.***

Paper 1 Memorandum 2014 Physical Scie

Massimo Florio



Paper 1 Memorandum 2014 Physical Scie:

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

Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Applied and Theoretical Statistics, Committee on Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions, 2017-03-06 The Office of the Under Secretary of Defense Personnel Readiness referred to throughout this report as P R is responsible for the total force management of all Department of Defense DoD components including the recruitment readiness and retention of personnel Its work and policies are supported by a number of organizations both within DoD including the Defense Manpower Data Center DMDC and externally including the federally funded research and development centers FFRDCs that work for DoD P R must be able to answer questions for the Secretary of Defense such as how to recruit people with an aptitude for and interest in various specialties and along particular career tracks and how to assess on an ongoing basis service members career satisfaction and their ability to meet new challenges P R must also address larger scale questions such as how the current realignment of forces to the Asia Pacific area and other regions will affect recruitment readiness and retention While DoD makes use of large scale data and mathematical analysis in intelligence surveillance reconnaissance and elsewhere exploiting techniques such as complex network analysis machine learning streaming social media analysis and anomaly detection these skills and capabilities have not been applied as well to the personnel and readiness enterprise Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions offers a roadmap and implementation

plan for the integration of data analysis in support of decisions within the purview of P R

Molten Salt Reactors and Thorium Energy Thomas James Dolan, Imre Pazsit, Andrei Rykhlevskii, Ritsuo Yoshioka, 2024-01-25 Molten Salt Reactors and Thorium Energy Second Edition is a fully updated comprehensive reference on the latest advances in MSR research and technology Building on the successful first edition Tom Dolan and the team of experts have fully updated the content to reflect the impressive advances from the last 5 years ensuring this book continues to be the go to reference on the topic This new edition covers progress made in MSR design details innovative experiments and includes molten salt data corrosion studies and deployment plans The successful case studies section of the first edition have been removed expanded and fully updated and are now published in a companion title called Global Case Studies on Molten Salt Reactors Readers will gain a deep understanding of the advantages and challenges of MSR development and thorium fuel use as well as step by step guidance on the latest in MSR reactor design Each chapter provides a clear introduction covers technical issues and includes examples and conclusions while promoting the sustainability benefits throughout A fully updated comprehensive handbook on Molten Salt Reactors and Thorium Energy written by a team of global experts Covers MSR applications technical issues reactor types and reactor designs Includes 3 brand new chapters which reflect the latest advances in research and technology since the first edition published Presents case studies on molten salt reactors which aid in the transition to net zero by providing abundant clean safe energy to complement wind and solar power

Applications of Data Assimilation and Inverse Problems in the Earth Sciences Alik Ismail-Zadeh, Fabio Castelli, Dylan Jones, Sabrina Sanchez, 2023-07-06 Many contemporary problems within the Earth sciences are complex and require an interdisciplinary approach This book provides a comprehensive reference on data assimilation and inverse problems as well as their applications across a broad range of geophysical disciplines With contributions from world leading researchers it covers basic knowledge about geophysical inversions and data assimilation and discusses a range of important research issues and applications in atmospheric and cryospheric sciences hydrology geochronology geodesy geodynamics geomagnetism gravity near Earth electron radiation seismology and volcanology Highlighting the importance of research in data assimilation for understanding dynamical processes of the Earth and its space environment and for predictability it summarizes relevant new advances in data assimilation and inverse problems related to different geophysical fields Covering both theory and practical applications it is an ideal reference for researchers and graduate students within the geosciences who are interested in inverse problems data assimilation predictability and numerical methods

Snakes on a spaceship—An overview of python in space physics Angeline G. Burrell, John Coxon, K.-Michael Aye, Leslie Lamarche, Sophie A Murray, 2023-07-20

Government Reports Announcements, 1975

Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set) Union of International Associations, 2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events

Reflections on Programming Systems Liesbeth De Mol, Giuseppe Primiero, 2019-01-10 This book

presents a historical and philosophical analysis of programming systems intended as large computational systems like for instance operating systems programmed to control processes The introduction to the volume emphasizes the contemporary need of providing a foundational analysis of such systems rooted in a broader historical and philosophical discussion The different chapters are grouped around three major themes The first concerns the early history of large systems developed against the background of issues related to the growing semantic gap between hardware and code The second revisits the fundamental issue of complexity of large systems dealt with by the use of formal methods and the development of grand designs like Unix Finally a third part considers several issues related to programming systems in the real world including chapters on aesthetical ethical and political issues This book will interest researchers from a diversity of backgrounds It will appeal to historians philosophers as well as logicians and computer scientists who want to engage with topics relevant to the history and philosophy of programming and more specifically the role of programming systems in the foundations of computing

Road Vehicle Automation 4 Gereon Meyer, Sven Beiker, 2017-06-28 This book is the fourth volume of the sub series of the Lecture Notes in Mobility dedicated to Road Vehicle Automation Its chapters have been written by researchers engineers and analysts from all around the globe Topics covered include public sector activities human factors and challenges ethical legal energy and technology perspectives vehicle systems development as well as transportation infrastructure and planning The book is based on the Automated Vehicles Symposium which took place in San Francisco California USA in July 2016

Handbook of Space Resources Viorel Badescu, Kris Zacny, Yoseph Bar-Cohen, 2023-04-27 Earth has limited material and energy resources while these resources are virtually unlimited in space It is only a matter of time before planetary resources are mined and used in situ to sustain human and robotic exploration or returned to Earth for commercial gain This book covers a number of aspects related to space resources In particular subjects related to mission concepts exploration approaches mining and extraction technologies commercial potential and regulatory aspects of space resources are covered in detail This book is therefore a good resource for readers who seek background and deeper understanding of space resources related activities

The DARPA Model for Transformative Technologies: Perspectives on the U.S. Defense Advanced Research Projects Agency William Boone Bonvillian, Richard Van Atta, Patrick Windham, 2020-01-09 The authors have done a masterful job of charting the important story of DARPA one of the key catalysts of technological innovation in US recent history By plotting the development achievements and structure of the leading world agency of this kind this book stimulates new thinking in the field of technological innovation with bearing on how to respond to climate change pandemics cyber security and other global problems of our time The DARPA Model provides a useful guide for governmental agency and policy leaders and for anybody interested in the role of governments in technological innovation Dr Kent Hughes Woodrow Wilson International Center for Scholars This volume contains a remarkable collection of extremely insightful articles on the world's most successful advanced technology agency Drafted by

the leading US experts on DARPA it provides a variety of perspectives that in turn benefit from being presented together in a comprehensive volume It reviews DARPA's unique role in the US innovation system as well as the challenges DARPA and its clones face today As the American model is being considered for adoption by a number of countries worldwide this book makes a welcome and timely contribution to the policy dialogue on the role played by governments in stimulating technological innovation Prof Charles Wessner Georgetown University The US Defense Advanced Research Projects Agency DARPA has played a remarkable role in the creation new transformative technologies revolutionizing defense with drones and precision guided munitions and transforming civilian life with portable GPS receivers voice recognition software self driving cars unmanned aerial vehicles and most famously the ARPANET and its successor the Internet Other parts of the US Government and some foreign governments have tried to apply the DARPA model to help develop valuable new technologies But how and why has DARPA succeeded Which features of its operation and environment contribute to this success And what lessons does its experience offer for other US agencies and other governments that want to develop and demonstrate their own transformative technologies This book is a remarkable collection of leading academic research on DARPA from a wide range of perspectives combining to chart an important story from the Agency's founding in the wake of Sputnik to the current attempts to adapt it to use by other federal agencies Informative and insightful this guide is essential reading for political and policy leaders as well as researchers and students interested in understanding the success of this agency and the lessons it offers to others

Judgment and Decision Making Under Uncertainty: Descriptive, Normative, and Prescriptive Perspectives David R. Mandel, Gorka Navarrete, Nathan Dieckmann, Jonathan D. Nelson, 2019-09-26 *Half Life* Frank Close, 2015-03-05 The memo landed on Kim Philby's desk in Washington DC in July 1950 Three months later Bruno Pontecorvo a physicist at Harwell Britain's atomic energy lab disappeared without a trace When he re surfaced six years later he was on the other side of the Iron Curtain One of the most brilliant scientists of his generation Pontecorvo was privy to many secrets he had worked on the Anglo Canadian arm of the Manhattan Project and quietly discovered a way to find the uranium coveted by nuclear powers Yet when he disappeared MI5 insisted he was not a threat Now based on unprecedented access to archives letters surviving family members and scientists award winning writer and physics professor Frank Close exposes the truth about a man irrevocably marked by the advent of the atomic age and the Cold War **Sustainability**

Matters: Environmental Management In The Anthropocene Lin Heng Lye, Harvey Neo, Sekhar Narayana Kondepudi, Wen Shan Yew, Judy Gek-khim Sng, 2017-08-11 Sustainability Matters is a compilation of some of the best research papers submitted by students from the National University of Singapore's multi disciplinary and inter disciplinary graduate programme in environmental studies as their MSc dissertations in Environmental Management MEM This collection is for the period 2014 2015 to 2015 2016 Entitled Sustainability Matters Environmental Management in the Anthropocene this is the sixth volume in the series and comprises 15 of the best research papers completed during this period The papers have

been edited for brevity They analyse the many challenges to effective environmental management covering countries including China Vietnam Singapore Indonesia Pakistan Bangladesh the EU and USA Issues examined include biodiversity conservation environmental science environmental governance and management energy and urban studies The first compilation Sustainability Matters Environmental Management in Asia was published in 2010 and comprised the best papers from 2001 2002 to 2006 2007 The second Sustainability Matters Challenges and Opportunities in Environmental Management in Asia was published in 2011 and comprised the best papers from 2007 2008 and 2008 2009 The third and fourth compilations Sustainability Matters Asia's Green Challenges and Sustainability Matters Asia's Energy Concerns Green Policies and Environmental Advocacy comprised the best papers from the periods 2009 2010 and 2011 2012 respectively The fifth compilation Sustainability Matters Environmental and Climate Changes in the Asia Pacific was published in 2015 and comprised the best papers for the periods 2012 2013 and 2013 2014 The papers are edited by five staff members from different disciplines in the MEM programme Lye Lin Heng Harvey Neo Sekhar Kondepudi Yew Wen Shan Judy Sng Gek Khim

What Would Nature Do? Ruth DeFries, 2020-12-01 Not long ago the future seemed predictable Now certainty about the course of civilization has given way to fear and doubt Raging fires ravaging storms political upheavals financial collapse and deadly pandemics lie ahead or are already here The world feels less comprehensible and more dangerous and no one from individuals to businesses and governments knows how to navigate the path forward Ruth DeFries argues that a surprising set of time tested strategies from the natural world can help humanity weather these crises Through trial and error over the eons life has evolved astonishing and counterintuitive tricks in order to survive DeFries details how a handful of fundamental strategies investments in diversity redundancy over efficiency self correcting feedbacks and decisions based on bottom up knowledge enable life to persist through unpredictable sudden shocks Lessons for supply chains from a leaf's intricate network of veins and stock market saving circuit breakers patterned on planetary cycles reveal the power of these approaches for modern life With humility and willingness to apply nature's experience to our human constructed world DeFries demonstrates we can withstand uncertain and perilous times Exploring the lessons that life on Earth can teach us about coping with complexity What Would Nature Do offers timely options for civilization to reorganize for a safe and prosperous future

The Terrorism Trap Harrison Akins, 2023-06-20 After two decades and trillions of dollars the United States fight against terrorism has achieved mixed results Despite the vast resources and attention expended since 9 11 terrorism has increased in many societies that have been caught up in the war on terror Why have U S policies been unable to stem the tide of violence Harrison Akins reveals how the war on terror has had the unintended consequence of increasing domestic terrorism in U S partner states He examines the results of U S backed counterterrorism operations that targeted al Qaeda in peripheral regions of partner states over which their central governments held little control These operations often provoked a violent backlash from local terrorist groups leading to a spike in retaliatory attacks against partner states Senior

U S officials frequently failed to grasp the implications of the historical conflict between central governments and the targeted peripheries. Instead they exerted greater pressure on partner states to expand their counterterrorism efforts. This exacerbated the underlying conditions that drove the escalating attacks trapping these governments in a deadly cycle of tit for tat violence with local terrorist groups. This process Akins demonstrates accounts for the lion s share of the al Qaeda network s global terrorist activity since 2001. Drawing on extensive primary sources including newly declassified documents dozens of in depth interviews with leading government officials in the United States and abroad and statistical analysis *The Terrorism Trap* is a groundbreaking analysis of why counterterrorism has backfired.

La mondialisation sur la sellette Dani Rodrik, 2018-08-28 Maniant avec dext rit les tensions entre mondialisation souverainet nationale et d mocratie cet ouvrage incarne un commentaire indispensable sur l conomie mondiale contemporaine et ses dilemmes et offre un cadre visionnaire au moment crucial o nous en avons le plus besoin.

Game Theory: Breakthroughs in Research and Practice Management Association, Information Resources, 2017-06-19 Developments in the use of game theory have impacted multiple fields and created opportunities for new applications. With the ubiquity of these developments there is an increase in the overall utilization of this approach. *Game Theory Breakthroughs in Research and Practice* contains a compendium of the latest academic material on the usage strategies and applications for implementing game theory across a variety of industries and fields. Including innovative studies on economics military strategy and political science this multi volume book is an ideal source for professionals practitioners graduate students academics and researchers interested in the applications of game theory.

Johnstone Triangle Norman Reid, 2021-01-18 Chemistry is often seen as a difficult subject to understand. This book focusses on the triangle model that Alex H Johnstone developed in the early 1980s. Originally conceived in the context of making chemistry more accessible to a wider range of learners the model has been applied in almost every area of education in chemistry at all stages of learning. In looking at why chemistry is difficult there are two central questions. Firstly does the problem relate to the nature of chemistry and secondly does it relate to the way humans gain understanding. Both were found to be important and the answers to the two question were found to be connected. The triangle model arose from sustained research into human learning. The central finding from research is the critical role of working memory and the model rationalises so much evidence from chemistry education research as well as the repeated experiences of teachers of chemistry at all levels. In order to understand chemistry it is essential to develop sound mental models of molecular reality. It generates major implications for the way a chemistry curriculum should be constructed and the processes of teaching and learning in chemistry when the goal is focussed on understanding the key ideas. Some of these implications are developed and pointers offered to more successful ways forward. The power of the Johnstone Triangle lies in the way it offers clear directions for all involved in chemistry education. It is hoped that this book will prove helpful to all involved in sharing the exciting story of the way humans have come to understand the molecular world one of the great

examples of great human endeavour *Data Action* Sarah Williams, 2022-09-20 How to use data as a tool for empowerment rather than oppression Big data can be used for good from tracking disease to exposing human rights violations and for bad implementing surveillance and control Data inevitably represents the ideologies of those who control its use data analytics and algorithms too often exclude women the poor and ethnic groups In *Data Action* Sarah Williams provides a guide for working with data in more ethical and responsible ways Williams outlines a method that emphasizes collaboration among data scientists policy experts data designers and the public The approach generates policy debates influences civic decisions and informs design to help ensure that the voices of people represented in the data are neither marginalized nor left unheard

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on tommy said lizzie from behind sergeant grant tell the inspector tell her what you saw logan stood up and came out from
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