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Paper 1 And 2

Mwmorandum 2009 Physics Paper 1 And 2

Chemistry is often seen as a difficult subject to understand. This book focusses on the triangle model that Alex H.

Page 1/181

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Johnstone developed in the early 1980s. The model has been applied in almost every area of education in chemistry at all stages of learning.

Exploiting the general public's growing concerns about the ecological and climate crisis, some corporations are proposing "quick fixes" that threaten to wreak havoc

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on our planet. This book exposes how a biomass economy, based on using gene technologies to reprogram living organisms, will devastate our ecosystems as well as the human populations of the southern hemisphere by accelerating the wave of land grabs already common in Africa, Asia, and Latin America. Well-

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researched and groundbreaking, this analysis explores a number of interrelated topics vis-à-vis the uses of bio- and nano-technologies.

This 2-volume set within the SAGE Reference Series on Leadership tackles issues relevant to leadership in the realm of science and technology. To encompass

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the key topics in this arena, this handbook features 100 topics arranged under eight headings. Volume 1 concentrates on general principles of science and technology leadership and includes sections on social-scientific perspectives on S&T leadership; key scientific concepts about leading and innovating in S&T;

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characteristics of S&T leaders and their environments; and strategies, tactics, and tools of S&T leadership. Volume 2 provides case studies of leadership in S&T, with sections considering leadership in informal communities of scientists and engineers; leadership in government projects and research initiatives;

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leadership in industry research, development, and innovation; and finally, leadership in education and university-based research. By focusing on key topics within 100 brief chapters, this unprecedented reference resource offers students more detailed information and depth of discussion than typically found in

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an encyclopedia entry but not as much jargon, detail or density as in a journal article or a research handbook chapter. Entries are written in language and style that is broadly accessible, and each is followed by cross-references and a brief bibliography and further readings. A detailed index and an online version of the

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Paper 1 And 2

work enhances accessibility for today's student audience.

The Euro in the 21st Century clarifies the perception of the euro and empirically demonstrates that the euro has become a true common currency and the Eurozone a true optimal currency area, presenting, in turn, a model to imitate. In order to

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demonstrate this, this study analyzes the economic and monetary requirements and policies required to introduce a common currency as well as the theoretical underpinnings of both the European integration process and the historical economic, monetary, political, and social circumstances that favoured the creation

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of the economic and monetary union. Furthermore, this book sheds light on how the current economic and monetary circumstances are affecting the euro project through and analysis of three intertwined issues. It studies how the economic chaos and financial uproar, which has plagued the Eurozone and

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world economy since 2008, has affected the single-currency regime as well as the current image of the euro worldwide.

Moreover it summarizes the lesson to be learnt from what can be considered 'the first euro crisis'. Finally, it thoroughly analyzes the behaviour of the US Federal Reserve, the European Central Bank, and

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the International Monetary Fund during this crisis. This book draws on and contributes to several bodies of literature within Political Economy, Economics, and International Relations and is particularly relevant at this time given that the current unfolding economic imbalances are causing some Eurozone Member States to

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rethink their economic and political views concerning the euro.

*What's Changed, and Why It Matters
Earth Grab*

*Strengthening Forensic Science in the
United States*

Food Safety and Food Security

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*Proceedings of the Third International
Conference, OPTRONIX 2016*

*Why Earmarks are Good for American
Democracy*

Strengthening Forensic
Science in the United
States A Path Forward National
Academies Press

Page 15/181

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Despite an enduring belief that science should be taught, there has been no enduring consensus about how or why. This is especially true when it comes to teaching scientific process. John Rudolph shows that how

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we think about and teach science will either sustain or thwart future innovation, and determine how science is perceived by the public.

Informal science is a burgeoning field that operates across a broad

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range of venues and envisages learning outcomes for individuals, schools, families, and society. The evidence base that describes informal science, its promise, and effects is informed by a range of

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disciplines and perspectives, including field-based research, visitor studies, and psychological and anthropological studies of learning. Learning Science in Informal Environments

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draws together disparate literatures, synthesizes the state of knowledge, and articulates a common framework for the next generation of research on learning science in informal environments across a life

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span. Contributors include recognized experts in a range of disciplines--research and evaluation, exhibit designers, program developers, and educators. They also have experience in

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a range of settings--museums, after-school programs, science and technology centers, media enterprises, aquariums, zoos, state parks, and botanical gardens. Learning Science in Informal

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Environments is an invaluable guide for program and exhibit designers, evaluators, staff of science-rich informal learning institutions and community-based organizations, scientists interested in

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educational outreach,
federal science agency
education staff, and K-12
science educators.

A biographic reference to
notable people in Australia.
Entrants are drawn from all
areas of Australian life,

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including the arts,
politics, education,
medicine, defence, business,
diplomatic service, and
recipients of honours and
awards.

An Australian Biographical
Dictionary and Register of

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Prominent People, with which
is Incorporated Johns's
Notable Australians (first
Issued 1906)

People, Places, and Pursuits
A Path Forward

Climate Change, Commercial
Traffic and Port Development

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The ISIS Reader

Ploughshares and Swords

Extrapolation and Rational

Approximation

In the wake of its

"Caliphate" declaration in

2014, the self-described

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Islamic State has been the focus of countless academic papers, government studies, media commentaries and documentaries. Despite all this attention, persistent myths continue to

Page 28/181

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shape--and misdirect--public understanding and strategic policy decisions. A significant factor in this trend has been a strong disinclination to engage critically with Islamic State's

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speeches and writings--as if doing so reflects empathy with the movement's goals or, even more absurdly, may itself lead to radicalisation. Going beyond the descriptive and the

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sensationalist, this volume presents and analyses a series of milestone Islamic State primary source materials. Scholar-practitioners with field experience in confronting

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the movement explore and contextualise its approach to warfare, propaganda and governance, examining the factors behind its dramatic evolution from failed proto-state in 2010 to standard-

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***bearer of global jihadism in
2014, to besieged
insurgency in 2018. The ISIS
Reader will help
anyone--students and
journalists, military
personnel, civil servants and***

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inquisitive observers--to better understand not only the evolution of Islamic State and the dynamics of asymmetric warfare, but the importance of primary sources in doing so.

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Food Safety and Food Security features articles from the Wiley Handbook of Science and Technology for Homeland Security covering topics related to processing and packaging methods to

Page 35/181

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Paper 1 And 2

protect food supply against contamination and to mitigate the consequences of contaminated foods. It discusses related detection systems as well as decontamination and

Page 36/181

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Mwmorandum 2009 Physics

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disposal of contaminated foods.

"Meticulously researched and unapologetically romantic, How the Hippies Saved Physics makes the history of science fun

Page 37/181

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Paper 1 And 2

**again." —Science In the
1970s, an eccentric group of
physicists in Berkeley,
California, banded together
to explore the wilder side of
science. Dubbing
themselves the**

Page 38/181

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"Fundamental Fysiks Group," they pursued an audacious, speculative approach to physics, studying quantum entanglement in terms of Eastern mysticism and

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psychic mind reading. As David Kaiser reveals, these unlikely heroes spun modern physics in a new direction, forcing mainstream physicists to pay attention to the strange but exciting

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underpinnings of quantum theory.

This book is the first in English being entirely dedicated to Miniature Joule-Thomson Cryocooling. The category of Joule-Thomson

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(JT) cryocoolers takes us back to the roots of cryogenics, in 1895, with figures like Linde and Hampson. The "cold finger" of these cryocoolers is compact, lacks moving

parts, and sustains a large heat flux extraction at a steady temperature.

Potentially, they cool down unbeatably fast. For example, cooling to below 100 K (minus 173 Celsius)

might be accomplished within only a few seconds by liquefying argon. A level of about 120 K can be reached almost instantly with krypton. Indeed, the species of coolant plays a central

role dictating the size, the intensity and the level of cryocooling. It is the JT effect that drives these cryocoolers and reflects the deviation of the "real" gas from the ideal gas

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properties. The nine chapters of the book are arranged in five parts. •The Common Principle of Cyrocoolers shared across the broad variety of cryocooler types

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• *Theoretical Aspects: the JT effect and its inversion, cooling potential of coolants, the liquefaction process, sizing of heat exchangers, level of pressurization, discharge of*

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Paper 1 And 2

pressure vessels • Practical Aspects: modes of operation (fast cooldown, continuous, multi-staging, hybrid cryocoolers), pressure sources, configuration, construction and

Page 48/181

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technologies, flow adjustment, MEMS, open and closed cycle, cooldown process and similarity, transient behavior • Mixed Coolant cryocooling: theory, practice and applications •

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***Special Topics: real gas
choked flow rates, gas
purity, clog formation,
optimal fixed orifice,
modeling, cryosurgical
devices, warming by the
inverse JT effect The***

Page 50/181

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theoretical aspects may be of interest not only to those working with cryocoolers but also for others with a general interest in "real" gas thermodynamics, such as, for example, the inversion of

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the JT effect in its differential and integral forms, and the exceptional behavior of the quantum gases. A detailed list of references for each chapter comprises a broad literature

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survey. It consists of more than 1,200 relevant publications and 450 related patents. The systematically organized content, arranged under a thorough hierarchy of headings, supported by

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***227 figures and 41 tables,
and accompanied by various
chronological notes of
evolution, enables readers a
friendly interaction with the
book. Dr. Ben-Zion Maytal is
a Senior Researcher at***

Page 54/181

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Rafael-Advanced Defense Systems, Ltd., and an Adjunct Senior Teaching Fellow at the Technion-Israel Institute of Technology, Haifa, Israel. Prof. John M. Pfothenhauer holds a joint

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***appointment in the
Departments of Mechanical
Engineering and Engineering
Physics at the University of
Wisconsin - Madison.***

***The Euro in the 21st Century
A Reappraisal of Crustal***

Page 56/181

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Paper 1 And 2

Structure,

Tectonostratigraphy and

Magmatic Evolution

Leadership in Science and

Technology: A Reference

Handbook

Well Worth Saving

Page 57/181

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Paper 1 And 2

***The Works of the Main
Contributors***

***India's Nuclear Program in
the Global Cold War***

***General Relativity and John
Archibald Wheeler***

"A harrowing account of the

Page 58/181

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profoundly consequential decisions American universities made about refugee scholars from Nazi-dominated Europe. The United States' role in saving Europe's intellectual elite from the Nazis is often told as a tale of

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triumph, which in many ways it was. America welcomed Albert Einstein and Enrico Fermi, Hannah Arendt and Herbert Marcuse, Rudolf Carnap and Richard Courant, among hundreds of other physicists,

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philosophers, mathematicians, historians, chemists, and linguists who transformed the American academy. Yet for every scholar who survived and thrived, many, many more did not. To be hired by an American

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university, a refugee scholar had to be world-class and well connected, not too old and not too young, not too right and not too left and, most important, not too Jewish. Those who were unable to flee were left to face

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the horrors of the Holocaust. In this rigorously researched book, Laurel Leff rescues from obscurity scholars who were deemed "not worth saving" and tells the riveting, full story of the hiring decisions universities

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made during the Nazi era."--Provided by publisher. Although one finds much discussion and research on the features and functionality of Rich Internet Applications (RIAs), the 3D Web, Immersive

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Environments (e.g. MMORPGs) and Virtual Worlds in both scholarly and popular publications, very little is written about the issues and techniques one must consider when creating, deploying, interacting

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within, and managing them securely. Security in Virtual Worlds, 3D Webs, and Immersive Environments: Models for Development, Interaction, and Management brings together the issues that managers,

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practitioners, and researchers must consider when planning, implementing, working within, and managing these promising virtual technologies for secure processes and initiatives. This publication discusses the uses

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and potential of these virtual technologies and examines secure policy formation and practices that can be applied specifically to each.

"In forty years, Earth's population will reach ten billion.

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Can our world support that?
What kind of world will it be?
Those answering these
questions generally fall into two
deeply divided groups-Wizards
and Prophets, as Charles Mann
calls them in this balanced,

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authoritative, nonpolemical new book. The Prophets, he explains, follow William Vogt, a founding environmentalist who believed that in using more than our planet has to give, our prosperity will lead us to ruin. Cut back!

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was his mantra. Otherwise everyone will lose! The Wizards are the heirs of Norman Borlaug, whose research, in effect, wrangled the world in service to our species to produce modern high-yield crops that then saved

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millions from starvation.

Innovate! was Borlaug's cry.

Only in that way can everyone win! Mann delves into these diverging viewpoints to assess the four great challenges humanity faces-food, water,

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energy, climate change-grounding each in historical context and weighing the options for the future. "--

Many authoritarian leaders want nuclear weapons, but few manage to acquire them.

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Autocrats seeking nuclear weapons fail in different ways and to varying degrees—Iraq almost managed it; Libya did not come close. In *Unclear Physics*, Målfrid Braut-Hegghammer compares the two failed nuclear

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weapons programs, showing that state capacity played a crucial role in the trajectory and outcomes of both projects. Braut-Hegghammer draws on a rich set of new primary sources, collected during years of

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research in archives, fieldwork across the Middle East, and interviews with scientists and decision makers from both states. She gained access to documents and individuals that no other researcher has been

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able to consult. Her book tells the story of the Iraqi and Libyan programs from their origins in the late 1950s and 1960s until their dismantling. This book reveals contemporary perspectives from scientists and

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regime officials on the opportunities and challenges facing each project. Many of the findings challenge the conventional wisdom about clandestine weapons programs in closed authoritarian states

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and their prospects of success or failure. Braut-Hegghammer suggests that scholars and analysts ought to pay closer attention to how state capacity affects nuclear weapons programs in other authoritarian

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regimes, both in terms of questioning the actual control these leaders have over their nuclear weapons programs and the capability of their scientists to solve complex technical challenges.

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The Wizard and the Prophet

Cheese Factories on the Moon

How We Teach Science

And They Were Wonderful

Teachers

Characterization, integration and
reliability of HfO₂ and LaLuO₃

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high- κ /metal gate stacks for
CMOS applications

Economic Crisis and Financial
Uproar

Science for the Nation

*With Risk and Ruin, Gavin Benke
places Enron's fall within the larger*

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history of late twentieth-century American capitalism. In many ways, Benke argues, Enron was emblematic of the transitions that characterized the era. It has become part of US political convention to attack 'earmarks' -

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legislative provisions that direct funds to specific projects - as wasteful and corrupt. In this provocative book Scott A. Frisch and Sean Q. Kelly argue that in fact earmarks are good for American democracy. Using extensive

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interviews with Washington insiders and detailed examples they illustrate how earmark projects that were pilloried in fact responded to the legitimate needs of local communities, needs that would otherwise have gone unmet. They

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also demonstrate that media coverage of earmarks tends to be superficial and overly-dramatic. Cheese Factories on the Moon is a much-needed challenge to a widespread but deeply flawed 'consensus' about what is wrong

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with US congressional spending. The book considers the implications of the nuclear energy revival for global governance in the areas of safety, security and non-proliferation. Increased global warming, the energy demands of

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China, India and other emerging economic powerhouses and the problems facing traditional and alternative energy sources have lead many to suggest that there will soon be a nuclear energy 'renaissance'. This book examines

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comprehensively the drivers of and constraints on the revival, its nature and scope and the possibility that nuclear power will spread significantly beyond the countries which currently rely on it. Of special interest are developing countries

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which aspire to have nuclear energy and which currently lack the infrastructure, experience and regulatory structures to successfully manage such a major industrial enterprise. Of even greater interest are countries that may see in a

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nuclear energy program a 'hedging' strategy for a future nuclear weapons option. Following on from this assessment, the author examines the likely impact of various revival scenarios on the current global governance of

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nuclear energy, notably the treaties, international organizations, arrangements and practices designed to ensure that nuclear power is safe, secure and does not contribute to the proliferation of nuclear weapons. The book

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concludes with recommendations to the international community on how to strengthen global governance in order to manage the nuclear energy revival prudently. This book will be of much interest to students of energy security, global governance,

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security studies and IR in general. 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

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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-

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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

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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

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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

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scientists and their government overseers can effectively manage such an enormous undertaking.

Models for Development,

Interaction, and Management

Nuclear Science Abstracts

Enron and the Culture of American

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Capitalism

*Why Iraq and Libya Failed to Build
Nuclear Weapons*

*How Russia, China, and Iran Are
Eroding American Influence Using
Time-Tested Measures Short of
War*

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*PISA Take the Test Sample
Questions from OECD's PISA
Assessments
Florida's Purge of Gay and Lesbian
Teachers*

This book considers both the present state of Arctic shipping and possible

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future trends with reference to the various sectors of maritime transportation: cruise tourism, container traffic and bulk shipping. Ports are analysed as tools that support the strategies of coastal states to foster the development of resource extraction, enhance the attractiveness

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of Arctic shipping lanes and enable the control of maritime activities through coast guard deployment. The aim of this book is to draw a picture of the trends of Arctic shipping. How is traffic evolving in Canada's Arctic, or along the Northern Sea Route? Are there significant differences between bulk

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and container shipping segments when considering the Arctic market? How are the ports and the hinterland developing and what are the strategies behind those? How is the legal framework shaping the evolution of maritime transportation? The contributors to this book consider all of

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these questions, and more, as they map out the prospects for Arctic shipping and analyse in detail the development of Arctic shipping as a result of multi-variable interactions. This book will be key reading for industry professionals and post-graduate students alike.

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The NAG-TEC project was a collaborative effort by the British Geological Survey, the Geological Survey of Denmark and Greenland, the Geological Survey of Ireland, the Geological Survey of the Netherlands, the Geological Survey of Northern Ireland, the Geological Survey of

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Norway, Iceland GeoSurvey and the Faroese Geological Survey (Jarðfeingi), along with a number of academic partners and significant support from industry. The main focus was to investigate the tectonic evolution of the region with a particular emphasis on basin evolution along

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conjugate margins. A key outcome was the development of a new tectonostratigraphic atlas and database that includes comprehensive geological and geophysical information relevant for understanding the Devonian to present evolution of the NE Atlantic margins. These provide

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the foundation upon which ongoing research and exploration of the area can build. This Special Publication provides some of the first scientific results and analysis based on the project, including regional stratigraphic analysis and correlations, crustal structure and interpretation of

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geophysical data sets, plate kinematics and the evolution of igneous provinces.

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate

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resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent

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application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic

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science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a

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full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this

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book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

The Proceedings of 3rd International Conference on Opto-Electronics and

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Applied Optics, OPTRONIX 2016 is an effort to promote and present the research works by scientists and researchers including students in India and abroad in the area of Green Photonics and other related areas as well as to raise awareness about the recent trends of research and

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development in the area of the related fields. The book has been organized in such a way that it will be easier for the readers to go through and find out the topic of their interests. The first part includes the Keynote addresses by Rajesh Gupta, Department of Energy Science and Engineering, Indian

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Institute of Technology, Bombay; P.T. Ajith Kumar, President and Leading Scientist Light Logics Holography and Optics, Crescent Hill, Trivandrum, Kerala; and K.K. Ghosh, Institute of Engineering & Management, Kolkata, India. The second part focuses on the Plenary and Invited Talks given by

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eminent scientists namely, Vasudevan Lakshminarayanan, University of Waterloo, Canada; Motoharu Fujigaki, University of Fukui, Japan; Takeo Sasaki, Tokyo University of Science, Japan; Kehar Singh, Former Professor, Indian Institute of Technology, Delhi, India; Rajpal S.

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Sirohi, Tezpur University, India; Ajoy Kumar Chakraborty, Institute of Engineering & Management, India; Lakshminarayan Hazra, Emeritus Professor, Calcutta University, India; S.K. Bhadra, Emeritus Scientist, Indian Institute of Chemical Biology, India; Partha Roy Chaudhuri, Department of

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Physics, Indian Institute of Technology, Kharagpur, India; Navin Nishchal, Indian Institute of Technology, Patna, India; Tarun Kumar Gangopadhyay, CSIR-Central Glass and Ceramic Research Institute, India; Samudra Roy, Department of Physics, Indian Institute of

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Technology, Kharagpur, India;

Kamakhya Ghatak, University of
Engineering & Management, India.

The subsequent parts focus on
contributory papers in : Green
Photonics; Fibre and Integrated
Optics; Lasers, Interferometry; Optical
Communication and Networks; Optical

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and Digital Data and Image Processing; Opto-Electronic Devices, Terahertz Technology; Nano-Photonics, Bio-Photonics, Bio-Medical Optics; Lasers, Quantum Optics and Information Technology; E. M. Radiation Theory and Antenna; Cryptography; Quantum and Non-

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Linear Optics, Opto-Electronic
Devices; Non-Linear Waveguides;
Micro-Electronics and VLSI;
Interdisciplinary.

The Johnstone Triangle

Global Energy Assessment

Data on Federal Research and
Development Investments

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Ensuring Safety, Security and Non-proliferation

The Royal Society and the Promotion of Science since 1960

Security in Virtual Worlds, 3D Webs, and Immersive Environments: Models for Development, Interaction, and Management

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Two Remarkable Scientists and Their
Dueling Visions to Shape Tomorrow's
World

Since 9/11, Russia, China, and
Iran have successfully
exploited or stretched U.S.
thresholds for high-order war in

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order to further their strategic ends and, in the process, undermine U.S. interests. Each of these countries has made expert use of some combination of measures short of war to enact its strategies.

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This report describes those measures and how these nation-states use them and explains why U.S. notions of thresholds might be outdated. India's nuclear program is often misunderstood as an

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inward-looking endeavor of secretive technocrats. In *Ploughshares and Swords*, Jayita Sarkar challenges this received wisdom, narrating a global story of India's nuclear program during its first forty

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years. The book foregrounds the program's civilian and military features by probing its close relationship with the space program. Through nuclear and space technologies, India's leaders

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served the technopolitical aims of economic modernity and the geopolitical goals of deterring adversaries. The politically savvy, transnationally connected scientists and engineers who steered the

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program obtained technologies, materials, and information through a variety of state and nonstate actors from Europe and North America, including both superpowers. They thus

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maneuvered around Cold War politics and the choke points of the nonproliferation regime.

Hyperdiversification increased choices for the leaders of the nuclear program but reduced democratic accountability at

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home. The nuclear program became a consensus-enforcing device in the name of the nation. Ploughshares and Swords is a provocative new history with global implications. It shows how geopolitical and

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technopolitical visions influence decisions about the nation after decolonization. Thanks to generous funding from the Swiss National Science Foundation, the ebook editions of this book are

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available as Open Access volumes from Cornell Open (cornellopen.org) and other repositories.

Observational and experimental data pertaining to gravity and cosmology are

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changing our view of the Universe. General relativity is a fundamental key for the understanding of these observations and its theory is undergoing a continuing enhancement of its

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intersection with observational and experimental data. These data include direct observations and experiments carried out in our solar system, among which there are direct gravitational wave astronomy,

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frame dragging and tests of gravitational theories from solar system and spacecraft observations. This book explores John Archibald Wheeler's seminal and enduring contributions in

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relativistic astrophysics and includes: the General Theory of Relativity and Wheeler's influence; recent developments in the confrontation of relativity with experiments; the theory describing gravitational

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radiation, and its detection in Earth-based and space-based interferometer detectors as well as in Earth-based bar detectors; the mathematical description of the initial value problem in relativity and

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applications to modeling gravitational wave sources via computational relativity; the phenomenon of frame dragging and its measurement by satellite observations. All of these areas were of direct

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interest to Professor John A. Wheeler and were seminally influenced by his ideas. Independent, scientifically based, integrated, policy-relevant analysis of current and emerging energy issues for

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specialists and policymakers in academia, industry, government.

Stretching and Exploiting
Thresholds for High-Order War
Learning Science in Informal
Environments

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Risk and Ruin

Applied Mechanics Reviews

Perspectives on the History of
the Science Museum

Toward a Sustainable Future

This book presents all the

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publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment. An engaging study of a great national institution. Essays

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explore the changing roles of museums and the perceived public role of a museum of science and technology.

Illuminates the ways in which we think about the collecting and display of objects and the often difficult relations between the

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state, business and industry, and museum funding.

This book paints a fresco of the field of extrapolation and rational approximation over the last several centuries to the present through the works of their primary contributors. It can serve

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as an introduction to the topics covered, including extrapolation methods, Padé approximation, orthogonal polynomials, continued fractions, Lanczos-type methods etc.; it also provides in depth discussion of the many links between these subjects. A

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highlight of this book is the presentation of the human side of the fields discussed via personal testimonies from contemporary researchers, their anecdotes, and their exclusive remembrances of some of the “actors.” This book shows how research in this

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domain started and evolved. Biographies of other scholars encountered have also been included. An important branch of mathematics is described in its historical context, opening the way to new developments. After a mathematical introduction, the

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book contains a precise description of the mathematical landscape of these fields spanning from the 19th century to the first part of the 20th. After an analysis of the works produced after that period (in particular those of Richardson,

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Aitken, Shanks, Wynn, and others), the most recent developments and applications are reviewed.

This book gathers together some of the most up-to-date thinking in the growing field of innovation in services and more particularly, in

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financial services. It explores the peculiarities of innovation in financial services firms and surrounding market players, discusses the open nature of the innovation process, and analyses its success factors and its interplay with strategy and

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performance. This book provides topical insights on the challenges facing the financial industry, such as the convergence with other sectors, and the increasing regulatory burden. By combining multidisciplinary approaches and by selecting a number of cutting-

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edge research models, theories, empirical findings and practitioners' insights, it offers unique, contemporary and multidimensional perspectives on innovation for a sector of paramount importance for the running of economies around the

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world. This book comes at a time of turbulence, uncertainty and within an industry in need of vision and strategic foresight. By synthesizing multiple views from academia and practice, it opens the agenda and contributes to the on-going debate of redefining

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*the multi-polar role of innovation
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the process of e-
inclusion for older
people and addressing
the ethical, social and
legal aspects of the
process, this book is
suitable for

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researchers, policy-makers, organisations and companies, as well as for those with an interest in the identification and promotion of good

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practice within an
ageing society.

Two surveys of the
National Science
Foundation's Division of
Science Resources
Statistics (SRS) provide

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some of the most significant data available to understand research and development spending and policy in the United States. These are the Survey of

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Federal Funds for
Research and Development
and the Survey of
Federal Science and
Engineering Support to
Universities, Colleges,
and Nonprofit

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Institutions. These surveys help reach conclusions about fundamental policy questions, such as whether a given field of research is adequately

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funded, whether funding is balanced among fields, and whether deficiencies in funding may be contributing to a loss of U.S. scientific or economic

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competitiveness.

However, the survey data are of insufficient quality and timeliness to support many of the demands put on them. In addition the surveys are

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increasingly difficult
to conduct in times of
constrained resources,
and their technological,
procedural, and
conceptual
infrastructure has not

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been modernized for
procedure or content.
Data on Federal Research
and Development
Investments reviews the
uses and collection of
data on federal funds

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and federal support for science and technology and recommends future directions for the program based on an assessment of these uses and the adequacy of the

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surveys. The book also considers the classification structure, or taxonomy, for the fields of science and engineering. A stirring examination

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of how Cold War
repression and
persecution extended to
gay and lesbian teachers
in Florida

Rapid—and seemingly
accelerating—changes in

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the economies of developed nations are having a proportional effect on the skill sets required of workers in many new jobs. Work environments are often

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technology-heavy, while problems are frequently ill-defined and tackled by multidisciplinary teams. This book contains insights based on research conducted as

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part of a major international project supported by Cisco, Intel and Microsoft. It faces these new working environments head-on, delineating new ways of

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thinking about '21st-century' skills and including operational definitions of those skills. The authors focus too on fresh approaches to

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educational assessment,
and present
methodological and
technological solutions
to the barriers that
hinder ICT-based
assessments of these

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skills, whether in large-scale surveys or classrooms. Equally committed to defining its terms and providing practical solutions, and including international

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perspectives and
comparative evaluations
of assessment
methodology and policy,
this volume tackles an
issue at the top of most
educationalists'

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agendas.

Arctic Shipping

Milestone Texts of the
Islamic State Movement

Unclear Physics

Tunnel Visions

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