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REPUBLIC OF SOUTH AFRICA

## PHYSICAL SCIENCES

### GRADE 12

### PHYSICS: PAPER 1

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# Physical Science Paper 1 November 2014 National

**Tao Wei**



## **Physical Science Paper 1 November 2014 National:**

**Climate Hazard Crises in Asian Societies and Environments** Troy Sternberg, 2017-01-20 Climate hazards are the world's most widespread deadliest and costliest natural disasters. Knowledge of climate hazard dynamics is critical since the impacts of climate change, population growth, development projects, and migration affect both the impact and severity of disasters. Current global events highlight how hazards can lead to significant financial losses, increased mortality rates, and political instability. This book examines climate hazard crises in contemporary Asia, identifying how hazards from the Middle East through South and Central Asia and China have the power to reshape our globalised world. In an era of changing climates, knowledge of hazard dynamics is essential to mitigating disasters and strengthening livelihoods and societies across Asia. By integrating human exposure to climate factors and disaster episodes, the book explores the environmental forces that drive disasters and their social implications. Focusing on a range of Asian countries, landscapes, and themes, the chapters address several scales: province, national, regional, different hazards (drought, flood, temperature, storms, dust), environments (desert, temperate, mountain, coastal), and issues (vulnerability, development, management, politics). To present a diverse comprehensive evaluation of climate hazards in Asia, this book offers an understanding of the challenges climate hazards present, their critical nature, and the effort needed to mitigate climate hazards in 21st-century Asia. *Climate Hazard Crises in Asian Societies and Environments* is vital reading for those interested and engaged in Asia's development and well-being today and will be of interest to those working in Geography, Development Studies, Environmental Sciences, Sociology, and Political Science.

*What We Think About When We Try Not To Think About Global Warming* Per Espen Stoknes, 2015 Today about 98 percent of scientists affirm that climate change is human-made, and about 2 percent still question it. Despite that overwhelming majority, though, about half the population of rich countries like ours choose to believe the 2 percent. And paradoxically, this large camp of deniers grows even larger as more and more alarming proof of climate change has cropped up over the last decades. This disconnect has both climate scientists and activists scratching their heads, growing anxious, and responding usually by repeating more facts to win the argument. But the more climate facts pile up, the greater the resistance to them grows, and the harder it becomes to enact measures to reduce greenhouse gas emissions and prepare communities for the inevitable change ahead. Is humanity up to the task? It is a catch-22 that starts, says psychologist and climate expert Per Espen Stoknes, from an inadequate understanding of the way most humans think, act, and live in the world around them. With dozens of examples, he shows how to retell the story of climate change and apply communication strategies more fit for the task. Publisher's description.

**Statistical Challenges in Assessing and Fostering the Reproducibility of Scientific Results** 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, 2016-02-29 Questions about the reproducibility of scientific research have been raised in numerous settings and

have gained visibility through several high profile journal and popular press articles Quantitative issues contributing to reproducibility challenges have been considered including improper data measurement and analysis inadequate statistical expertise and incomplete data among others but there is no clear consensus on how best to approach or to minimize these problems A lack of reproducibility of scientific results has created some distrust in scientific findings among the general public scientists funding agencies and industries While studies fail for a variety of reasons many factors contribute to the lack of perfect reproducibility including insufficient training in experimental design misaligned incentives for publication and the implications for university tenure intentional manipulation poor data management and analysis and inadequate instances of statistical inference The workshop summarized in this report was designed not to address the social and experimental challenges but instead to focus on the latter issues of improper data management and analysis inadequate statistical expertise incomplete data and difficulties applying sound statistic inference to the available data Many efforts have emerged over recent years to draw attention to and improve reproducibility of scientific work This report uniquely focuses on the statistical perspective of three issues the extent of reproducibility the causes of reproducibility failures and the potential remedies for these failures

The Business of Bees Jill Atkins,Barry Atkins,2017-09-08 Our bee populations are under threat Over the past 60 years they have lost much of their natural habitat and are under assault from pesticides and intensive farming We rely on bees and other insects to pollinate our fruit and vegetables and without them our environment and economy will be in crisis The Business of Bees provides the first integrated account of diminishing bee populations as well as other pollinators from an interdisciplinary perspective It explores the role of corporate responsibility and governance as they relate to this critical issue and examines what the impact will be on consumers companies stock markets and ultimately on global society if bee populations continue to decline at a dangerous rate The book considers the issue of global bee population decline from a variety of disciplines combining the perspectives of academics in accounting science and humanities with those of practitioners in the finance industry The chapters explore the impact of the rapid decline in pollinator populations on the natural world on corporations on the stock market and on accounting The Business of Bees will be essential reading for those in academia business and finance sectors and anyone invested in the future of our planet

*Regional Risk and Security in Japan* Glenn D. Hook,Ra Mason,Paul O'Shea,2015-05-20 Japan s unusual position in the realm of international politics encapsulates a three fold juxtaposition both in and out of Asia both occupied by and a close ally of the United States and both a key trade partner and a strategic rival of China Whilst international relations theory offers a number of ways to analyse these relations this book instead utilizes the concept of risk to provide an innovative perspective on Japan s relations with China North Korea and the US The book elucidates how risk potential harm and harm are faced disproportionately by certain groups in society This is demonstrated by providing an empirically rich analysis of the domestic implications of security relations with China North Korea and the United States through the presence of US troops in

Okinawa Beginning with a theoretical discussion of risk it goes on to demonstrate how the concept of risk adds value to the study of international relations in three senses First the concept helps to break down the boundaries between the international and domestic Second the focus on risk and the everyday directs us to ask basic questions about the costs and benefits of a security policy meant to secure the national population Third what implications do these two points have for governance The question is one of governance as Japan s externally oriented security policy produces domestic insecurity shared disproportionately not equally as this volume makes clear Developing the theory of risk as a tool for understanding international relations this book will be of great interest to students and scholars of Asian politics Japanese politics international relations and security studies as well as to policy makers and practitioners working in the field *Handbook of the Politics of the Arctic* Leif Christian Jensen, Geir Hønneland, 2015-09-25 The Arctic has again become one of the leading issues on the international foreign policy agenda in a manner unseen since the Cold War Drawing on the perspectives of geo politics and international law this Handbook offers fresh insights and perspectives on the most pressing issues grouped under the headings of political ascendancy climate and environmental issues resources and energy and the response and policies of affected countries *An Assessment of ARPA-E* National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, Committee on Evaluation of the Advanced Research Projects Agency-Energy (ARPA-E), 2017-08-28 In 2005 the National Research Council report *Rising Above the Gathering Storm* recommended a new way for the federal government to spur technological breakthroughs in the energy sector It recommended the creation of a new agency the Advanced Research Projects Agency Energy or ARPA E as an adaptation of the Defense Advanced Research Projects Agency DARPA model widely considered a successful experiment that has funded out of the box transformative research and engineering that made possible the Internet GPS and stealth aircraft This new agency was envisioned as a means of tackling the nation s energy challenges in a way that could translate basic research into technological breakthroughs while also addressing economic environmental and security issues Congress authorized ARPA E in the 2007 America COMPETES Act and requested an early assessment following 6 years of operation to examine the agency s progress toward achieving its statutory mission and goals This report documents the results of that assessment It includes both an operational assessment of the agency s funding programs and a technical assessment of its awards to the extent possible *Public Health and Welfare: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources, 2016-09-12 The prevention and treatment of diseases is a primary concern for any nation in modern society To maintain an effective public health system procedures and infrastructure must be analyzed and enhanced accordingly *Public Health and Welfare Concepts Methodologies Tools and Applications* provides a comprehensive overview of the latest research perspectives on public health initiatives and promotion efforts Highlighting critical analyses and emerging

innovations on an international scale this book is a pivotal reference source for professionals researchers academics practitioners and students interested in the improvement of public health infrastructures

**Teaching and Digital Technologies** Michael Henderson, Geoff Romeo, 2016-01-08 Teaching and Digital Technologies Big Issues and Critical Questions helps both pre service and in service teachers to critically question and evaluate the reasons for using digital technology in the classroom Unlike other resources that show how to use specific technologies and quickly become outdated this text empowers the reader to understand why they should or should not use digital technologies when it is appropriate or not and the implications arising from these decisions The text directly engages with policy the Australian Curriculum pedagogy learning and wider issues of equity access generational stereotypes and professional learning The contributors to the book are notable figures from across a broad range of Australian universities giving the text a unique relevance to Australian education while retaining its universal appeal Teaching and Digital Technologies is an essential contemporary resource for early childhood primary and secondary pre service and in service teachers in both local and international education environments

*Oil's Deep State* Kevin Taft, 2017-10-06 Why have democratic governments failed to take serious steps to reduce carbon emissions despite dire warnings and compelling evidence of the profound and growing threat posed by global warming Most of the writing on global warming is by scientists academics environmentalists and journalists Kevin Taft a former leader of the opposition in Alberta brings a fresh perspective through the insight he gained as an elected politician who had an insider's eyewitness view of the role of the oil industry His answer in brief The oil industry has captured key democratic institutions in both Alberta and Ottawa Taft begins his book with a perceptive observer's account of a recent court case in Ottawa which laid bare the tactics and techniques of the industry its insiders and lobbyists He casts dramatic new light on exactly how corporate lobbyists politicians bureaucrats universities and other organizations are working together to pursue the oil industry's agenda He offers a brisk tour of the recent work of scholars who have developed the concepts of the deep state and institutional capture to understand how one rich industry can override the public interest Taft views global warming and weakened democracy as two symptoms of the same problem the loss of democratic institutions to corporate influence and control He sees citizen engagement and direct action by the public as the only response that can unravel big oil's deep state

Optimizing the U.S. Ground-Based Optical and Infrared Astronomy System National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on a Strategy to Optimize the U.S. Optical and Infrared System in the Era of the Large Synoptic Survey Telescope (LSST), 2015-06-26 New astronomical facilities such as the under construction Large Synoptic Survey Telescope and planned 30 meter class telescopes and new instrumentation on existing optical and infrared OIR telescopes hold the promise of groundbreaking research and discovery How can we extract the best science from these and other astronomical facilities in an era of potentially flat federal budgets for both the facilities and the research grants Optimizing

the U S Ground Based Optical and Infrared Astronomy System provides guidance for these new programs that align with the scientific priorities and the conclusions and recommendations of two National Research Council NRC decadal surveys New Worlds New Horizons for Astronomy and Astrophysics and Vision and Voyages for Planetary Sciences in the Decade 2013 2022 as well as other NRC reports This report describes a vision for a U S OIR System that includes a telescope time exchange designed to enhance science return by broadening access to capabilities for a diverse community an ongoing planning process to identify and construct next generation capabilities to realize decadal science priorities and near term critical coordination planning and instrumentation needed to usher in the era of LSST and giant telescopes

*Simulation and Gaming* Dragan Cvetković, 2018-02-14 The book *Simulation and Gaming* discusses the following topics and research areas game based methods of problem solution and data processing analysis and information mining educational games and game features including game characteristics story mechanics and methodology development of integrated games tasked with helping students in interpreting translating and manipulating the field of kinematics through formal presentations possibility of research integration through real and practical examples and games as well in the field of physics analysis of game engines from various aspects such as modularity performance and usability virtual reality VR and interaction mechanisms used for three dimensional 3D game development analysis development design implementation and evaluation of the simulation model in the field of engineering and metallurgy according to ADDIE model concept of computational thinking with an accent on its inclusion in compulsory education overview of the current prominence of AI simulation based in the gaming leisure industry mainly for research purposes in the context of gambling and forecasting of online casino patron s churn behavior innovative modeling and simulation approach using newly proposed advanced game based mathematical framework unified game based acquisition framework and a set of war gaming engines to address the challenges for acquisition of future space systems modification of simulation of a complex system and a physics model through programming achieved with a block based programming language

**Overcoming Barriers to Deployment of Plug-in Electric Vehicles** National Research Council, Transportation Research Board, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Overcoming Barriers to Electric-Vehicle Deployment, 2015-06-26 In the past few years interest in plug in electric vehicles PEVs has grown Advances in battery and other technologies new federal standards for carbon dioxide emissions and fuel economy state zero emission vehicle requirements and the current administration s goal of putting millions of alternative fuel vehicles on the road have all highlighted PEVs as a transportation alternative Consumers are also beginning to recognize the advantages of PEVs over conventional vehicles such as lower operating costs smoother operation and better acceleration the ability to fuel up at home and zero tailpipe emissions when the vehicle operates solely on its battery There are however barriers to PEV deployment including the vehicle cost the short all electric driving range the long battery charging time uncertainties about battery life

the few choices of vehicle models and the need for a charging infrastructure to support PEVs What should industry do to improve the performance of PEVs and make them more attractive to consumers At the request of Congress Overcoming Barriers to Deployment of Plug in Electric Vehicles identifies barriers to the introduction of electric vehicles and recommends ways to mitigate these barriers This report examines the characteristics and capabilities of electric vehicle technologies such as cost performance range safety and durability and assesses how these factors might create barriers to widespread deployment Overcoming Barriers to Deployment of Plug in Electric Vehicles provides an overview of the current status of PEVs and makes recommendations to spur the industry and increase the attractiveness of this promising technology for consumers Through consideration of consumer behaviors tax incentives business models incentive programs and infrastructure needs this book studies the state of the industry and makes recommendations to further its development and acceptance

**Nuclear Deterrence in a Multipolar World** Stephen Cimbala, 2017-07-05 The view that America and Russia have burned their candles on security cooperation with respect to nuclear weapons is simply mistaken This timely study identifies twelve themes or issue areas that must be addressed by the United States and Russia if they are to provide shared successful leadership in the management of nuclear world order Designed as supplementary reading in upper division and graduate courses in national security policy defense and nuclear arms control it is also suitable for courses taught at military staff and command colleges and or war colleges

**Women and Children as Victims and Offenders: Background, Prevention, Reintegration** Helmut Kury, Sławomir Redo, Evelyn Shea, 2016-06-01 This work compiles experiences and lessons learned in meeting the unique needs of women and children regarding crime prevention and criminal justice in particular the treatment and social reintegration of offenders and serves as a cross disciplinary work for academic and policy making analyses and follow up in developing and developed countries Furthermore it argues for a more humane and effective approach to countering delinquency and crime among future generations In a world where development positively depends on the rule of law and the related investment security two global trends may chart the course of development urbanization and education Urbanization will globalize the concepts of justice and fairness education will be dominated by the urban mindset and digital service economy just as a culture of lawfulness will This work looks at crime prevention education as an investment in the sustainable quality of life of succeeding generations and at those who pursue such crime prevention as the providers of much needed skills in the educational portfolio Adopting a reformist approach this work collects articles with findings and recommendations that may be relevant to domestic and international policymaking including the United Nations Studies and their educational value for the welfare of coming generations The books address the relevant United Nations ideas by combining them with academic approaches Guided by the Editors respective fields of expertise and in full recognition of academic freedom and organized scepticism it includes contributions by lawyers criminologists sociologists and other eminent experts seeking to bridge the gap between academic and policy



perspectives as appropriate against the international background including the United Nations developments The first volume opens with a foreword by Marta Santos Pais the United Nations Special Representative of the Secretary General on Violence against Children and a general introduction by the editors Part I provides an overview of United Nations principles for crime prevention and the treatment of women and children Part II concentrates on education and the social learning of children and adolescents The importance of quality education is stressed as is its impact on the behaviour of children of all ages It also includes a discussion of the factors that still hinder access to good schooling in many parts of the world Part III presents international research findings on children juveniles and women both as victims and offenders Statistics show overwhelmingly that these groups are more often victims than offenders

Economics, Social Sciences and Information Management Ford Lumban Gaol, Fonny Hutagalung, 2015-12-29 The 2015 International Congress on Economics Social Sciences and Information Management ICESIM 2015 held 28 29 March 2015 in Bali Indonesia aimed to provide a platform for the sharing of valuable knowledge and experience in the context of changing economics and social settings Information technology has changed many aspects in our life inc

**Canada and Climate Change** William Leiss, 2022-11-18 Pandemics massive earthquakes war and other catastrophes inspire immediate action because their casualties and destruction are immediately visible Climate change is an unyielding problem because its long range dangers are hidden and thus it is a global risk unlike anything in human experience The federal government recently announced aggressive climate targets for Canada We have committed to producing net zero greenhouse gas emissions by 2050 which will require major changes for our economy and way of life Canadian citizens need to understand why our most distinguished climate scientists and our senior political leaders think that we must meet this target Canada and Climate Change explains the importance of policies that will ensure we meet the net zero emissions target William Leiss provides a firm grasp on what climate change is and how scientists have described shifts in the earth s climate as they have occurred over hundreds of millions of years and as they are likely to occur in the near future especially by the end of this century Leiss argues that citizens have a right to place their trust in what climate scientists tell us Canada and Climate Change is an essential primer on where we stand on the issue of climate change in Canada and what will unfold in the years ahead

Sustainable Development and Disaster Risk Reduction Juha I. Uitto, Rajib Shaw, 2015-11-05 This book focuses on exploring the linkages between natural disasters and sustainable development at the global regional and national levels Disasters and development are closely related yet the disciplinary silos prevail and there is little communication and cooperation between the disaster management environment and development communities One catastrophic event such as an earthquake tsunami or cyclone can destroy infrastructure people s lives and livelihoods and set back development Similarly slow onset disasters often associated with global climate change pose threats to development livelihoods food security and long term sustainable development This book is uniquely aimed at bridging the gaps between the environmental development and disaster management communities It traces the

evolution of concepts and practice and highlights the linkages between natural disasters and sustainable development in key sectors including food security health and water The book includes case studies from the field highlighting the complex issues that challenge sustainable development and disaster risk management in practice It draws policy conclusions for the global community based on state of the art knowledge from research and practice The primary target groups for the book are researchers including graduate students in the fields of environment and sustainable development geography disaster risk reduction and climate change studies The second target group comprises practitioners and policymakers working in national and international organizations the private sector and civil society *The Indian Science Community* Venni V.

Krishna,2024-09-30 This book focuses on the historical and sociological dimensions of scientists working in laboratories in India offering insights into the historical sociological and policy factors that shape scientific pursuits It illuminates the challenges accomplishments and the evolving role of science in societal development The author initiates a broader discourse on the interplay between scientific advancements societal contexts and policy frameworks The book fosters a deeper understanding of science s role in shaping India s social fabric and contributing to the global scientific dialogue It also explores issues such as brain drain science activism and the conflict between university and government run models of science Lucid and topical the book will be of considerable interest to both social and natural scientists as well as the general academic community including research students in science technology history social history of science science and technology studies and innovation policies The History of the Study of Landforms or the Development of Geomorphology, Volume 5 T.P. Burt,A.S. Goudie,H.A. Viles,2022-10-20 Co published with British Society for Geomorphology This volume is the fifth in the definitive series The History of the Study of Landforms or the Development of Geomorphology Volume 1 1964 dealt with contributions to the field up to 1890 Volume 2 1973 with the concepts and contributions of William Morris Davis and Volume 3 1991 covered historical and regional themes during the classic period of geomorphology 1890 1950 Volume 4 2008 concentrated on studies of geomorphological processes and Quaternary geomorphology between 1890 and 1965 by the end of this period process based studies had become dominant Volume 5 builds on this platform covering in detail the revolutionary changes in approach that characterized the study of geomorphology in the second half of the twentieth century It is divided into three sections the first deals with changes in approach and method the second with changes in ideas and the broader scientific context within which geomorphology is studied and the final section details advances in research on processes and landforms The volume s objective is to describe and analyse many of the developments that provide a foundation for the rich and varied subject matter of twenty first century geomorphology

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