



education

DEPARTMENT: EDUCATION
MPUMALANGA PROVINCE



GRADE 11

**PHYSICAL SCIENCES
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QUESTION PAPER (1)**

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This question paper consists of 17 pages including the data sheets

2014 Physical Science November Paper 1 National Paper

Leif Christian Jensen, Geir Hønneland



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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 *Assessment of Solid-State Lighting, Phase Two* National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Assessment of Solid-State Lighting, Phase 2, 2017-06-11 The standard incandescent light bulb which still works mainly as Thomas Edison invented it converts more than 90% of the consumed electricity into heat Given the availability of newer lighting technologies that convert a greater percentage of electricity into useful light there is potential to decrease the amount of energy used for lighting in both commercial and residential applications Although technologies such as compact fluorescent lamps CFLs have emerged in the past few decades and will help achieve the goal of increased energy efficiency solid state lighting SSL stands to play a large role in dramatically decreasing U S energy consumption for lighting Since the publication of the 2013 National Research Council report *Assessment of Advanced Solid State Lighting* the penetration of SSL has increased dramatically with a resulting savings in energy and costs that were foreshadowed by that study What was not anticipated then is the dramatic dislocation and restructuring of the SSL marketplace as cost reductions for light emitting diode LED components reduced profitability for LED manufacturers At the same time there has been the emergence of new applications for SSL which have the potential to create new markets and commercial opportunities for the SSL industry *Assessment of Solid State Lighting Phase Two* discusses these aspects of change highlighting the progress of commercialization and acceptance of SSL and reviewing the technical advances and challenges in achieving higher efficacy for LEDs and organic light emitting diodes This report will also discuss the recent trends in SSL manufacturing and opportunities for new applications and describe the role played by the Department of Energy DOE Lighting Program in the development of SSL **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

Ethics and climate change, 2015-07-27 Climate change is the most significant moral and environmental issue of our time This project seeks to help deepen explicit ethical reflection around the world on national responses to climate change by developing a publicly available record on national compliance with ethical obligations for climate change similar to the reports that are now available on national compliance with human rights obligations

Climate Uncertainty and Risk Judith Curry, 2023-06-06 World leaders have made a forceful statement that climate change is the greatest challenge facing humanity in the 21st century However little progress has been made in implementing policies to address climate change In *Climate Uncertainty and Risk* eminent climate scientist Judith Curry shows how we can break this gridlock This book helps us rethink the climate change problem the risks we are facing and how we can respond to these challenges Understanding the deep uncertainty surrounding the climate change problem helps us to better assess the risks This book shows how uncertainty and disagreement can be part of the decision making process It provides a road map for formulating pragmatic solutions *Climate Uncertainty and Risk* is essential reading for those concerned about the environment professionals dealing with climate change and our national leaders

[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 geopolitics 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

Sea Level Variability and Change Ivan D. Haigh, Marta Marcos, Sönke Dangendorf, Francisco Calafat, 2017-04-27 In June 2015 we held a workshop on the beautiful island of Mallorca Spain with a focus on sea level variability and change Over 120 sea level experts from around the world attended this workshop from a range of different disciplines The main aims of the workshop were to 1 Evaluate the current state of knowledge of sea level science 2 Identify

gaps and unresolved questions in any aspect of sea level science and 3 Design future research to address these issue All aspects of sea level changes were covered from global to regional observations and modelling processes driving mean sea level changes and extremes from the geological scale to the instrumental era and future projections and including impacts on the coastal zones This E Book presents papers that came out of that workshop Overall these papers illustrate the multi disciplinary nature of sea level research cross cutting many fields of research including oceanography meteorology geology coastal morphodynamics engineering and the social economic aspects Collectively theses articles represent an interesting range of perspectives and original studies that contribute to understanding the dynamic nature of sea level and its impacts across a wide range of time and space scales Enjoy reading them [Collaborate Computing: Networking, Applications and Worksharing](#) Shangguang Wang,Ao Zhou,2017-07-04 This book constitutes the thoroughly refereed proceedings of the 12th International Conference on Collaborative Computing Networking Applications and Worksharing CollaborateCom 2016 held in Beijing China in November 2016 The 66 papers presented were carefully reviewed and selected from 116 submissions and focus on topics such as participatory sensing crowdsourcing and citizen science architectures protocols and enabling technologies for collaborative computing networks and systems autonomic computing and quality of services in collaborative networks systems and applications collaboration in pervasive and cloud computing environments collaboration in data intensive scientific discovery collaboration in social media big data and spatio temporal data in collaborative environments systems collaboration techniques in data intensive computing and cloud computing **150 technical questions and answers for job interview Offshore Drilling Rigs** Petrogav International Oil & Gas Training Center,2020-06-29 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 150 questions and answers for job interview and as a BONUS web addresses to 309 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **Strategic Sustainability** Daniel Fogel,2016-03-22 Strategic Sustainability examines how organizations can implement environmental sustainability science theories and ways of thinking to become more competitive Including examples and ideas implemented in various countries it is based on known scientific principles about the natural world and organizational principles focusing on the work domain The intersection of these two realms of research creates a powerful and new approach to comprehensive seemingly contradictory issues Daniel S Fogel draws from disparate fields and creates a story about organizations their future and how people are part of the problem and more importantly part of the solution Readers will find ways to take action to improve organizations and avoid denigrating

our natural environment learning to be mindful of the urgency we should feel to improve our impact on the world The focus on the natural environment provides a powerful focus for creating value in organizations and addressing the major challenges we all face Advanced sustainability students working professionals and board members managers and legislators responsible for governing organizations or implementing public policy will find this book useful A companion website features an instructor s manual with test questions as well as 38 10 minute videos for classroom use

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