

G11 PHYSICAL SCIENCE PAPER 1 REVISION

QUESTION 2 (Start on a new page.)

Three forces, **P**, **Q** and **R**, of magnitudes 800N, 200N and 600N respectively, act on a point **O** in the directions shown in the diagram below.

The forces are NOT drawn to scale.



Determine the magnitude and direction of the resultant force by
CALCULATION

(8)
[8]

QUESTION 3 (Start on a new page.)

A constant force, **F**, pulls a 35kg block at a constant speed over a rough horizontal surface, **AB**, as shown in the diagram below. The coefficient of kinetic friction (μ_k) between the block and the surface is 0,4.



3.1 Draw a labelled free-body diagram showing ALL the forces acting on the block.

(4)

3.2 State Newton's first law of motion in words.

(2)

Calculate the magnitude of the:

3.3 Force **F**

(6)

Physical Science Paper 1 June 2013 Caps

**Michael A. Peters, Tina Besley, Petar
Jandrić, Xudong Zhu**



Physical Science Paper 1 June 2013 Caps:

Climate Change 2013 - The Physical Science Basis Intergovernmental Panel on Climate Change (IPCC), 2014-03-24
This Fifth Assessment Report of the Intergovernmental Panel on Climate Change IPCC will again form the standard scientific reference for all those concerned with climate change and its consequences including students and researchers in environmental science meteorology climatology biology ecology and atmospheric chemistry It provides invaluable material for decision makers and stakeholders at international national and local level in government businesses and NGOs This volume provides An authoritative and unbiased overview of the physical science basis of climate change A more extensive assessment of changes observed throughout the climate system than ever before New dedicated chapters on sea level change biogeochemical cycles clouds and aerosols and regional climate phenomena Extensive coverage of model projections both near term and long term climate projections A detailed assessment of climate change observations modelling and attribution for every continent A new comprehensive atlas of global and regional climate projections for 35 regions of the world

Climate Change 2013: The Physical Science Basis Intergovernmental panel on climate change. Working group 1, 2014
The report also provides a comprehensive assessment of past and future sea level change in a dedicated chapter

Euro-Par 2013: Parallel Processing Workshops Dieter an Mey, Michael Alexander, Bientinesi Paolo, Mario Cannataro, Carsten Clauss, Alexandru Costan, Gabor Kecskemeti, Christine Morin, Laura Ricci, Julio Sahuquillo, Martin Schulz, Vittorio Scarano, Scott Ostercamp, Josef Weidendorfer, 2014-04-10 This book constitutes thoroughly refereed post conference proceedings of the workshops of the 19th International Conference on Parallel Computing Euro Par 2013 held in Aachen Germany in August 2013 The 99 papers presented were carefully reviewed and selected from 145 submissions The papers include seven workshops that have been co located with Euro Par in the previous years Big Data Cloud Second Workshop on Big Data Management in Clouds Hetero Par 11th Workshop on Algorithms Models and Tools for Parallel Computing on Heterogeneous Platforms HiBB Fourth Workshop on High Performance Bioinformatics and Biomedicine OMHI Second Workshop on On chip Memory Hierarchies and Interconnects PROPER Sixth Workshop on Productivity and Performance Resilience Sixth Workshop on Resiliency in High Performance Computing with Clusters Clouds and Grids UCHPC Sixth Workshop on Un Conventional High Performance Computing as well as six newcomers DIHC First Workshop on Dependability and Interoperability in Heterogeneous Clouds Fed ICI First Workshop on Federative and Interoperable Cloud Infrastructures LSDVE First Workshop on Large Scale Distributed Virtual Environments on Clouds and P2P MHPC Workshop on Middleware for HPC and Big Data Systems PADABS First Workshop on Parallel and Distributed Agent Based Simulations ROME First Workshop on Runtime and Operating Systems for the Many core Era All these workshops focus on promotion and advancement of all aspects of parallel and distributed computing 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

Fire and Ice Jonathan Mingle, 2025-06-25 High in the Himalayan valley of Zaskar in northwest India sits a village as isolated as the legendary Shangri La Long fed by runoff from glaciers and lofty snowfields Kumik a settlement of thirty nine mud brick homes has survived and thrived in one of the world s most challenging settings for a thousand years But now its people confront an existential threat chronic crippling drought which leaves the village canal dry and threatens to end their ancient culture of farming and animal husbandry Fire and Ice weaves together the story of Kumik s inspiring response to this calamity with the story of black carbon Black carbon from inefficient fires the particulate residue that makes soot dark is the second largest contributor to global warming after carbon dioxide It s also a key ingredient of the air pollution that public health experts regard as humanity s greatest environmental health risk worldwide soot laden smoke from household hearth fires and outdoor sources combine to kill over seven million people around the world every year Jonathan Mingle describes the joys and struggles of daily life in the Zaskar Valley where villagers are buffeted by powerful environmental and economic forces while also tracing black carbon s dark fingerprints outward from Kumik and around the world Mingle investigates its impacts on snow ice and water from Mt Everest to California and the silent health epidemic it fuels from New York to New Delhi Combining cultural history detailed reportage climate and energy science and dramatic storytelling Fire and Ice is a profound examination of the global challenges of averting climate chaos and lifting billions out of energy poverty and water scarcity Can Kumik s people come together to reinvent fire harness what remains of their life sustaining ice and reinvigorate their traditions of solidarity in time to save themselves Can the rest of us rise to the same challenge Fire and Ice connects these questions with the work of enterprising scientists engineers entrepreneurs and activists around the world in a narrative that combines mythology reason humor persistence and hope in a race against a global clock **ICIW 2013**

Proceedings of the 8th International Conference on Information Warfare and Security Doug Hart, 2013-03-25

ICEL 2018 13th International Conference on e-Learning Professor Eunice Ivala, 2018-07-05 **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 **Arctic Ice Shelves and Ice Islands** Luke

Copland, Derek Mueller, 2017-05-30 This book provides an overview of the current state of knowledge of Arctic ice shelves ice islands and related features Ice shelves are permanent areas of ice which float on the ocean surface while attached to the coast and typically occur in very cold environments where perennial sea ice builds up to great thickness and or where

glaciers flow off the land and are preserved on the ocean surface These landscape features are relatively poorly studied in the Arctic yet they are potentially highly sensitive indicators of climate change because they respond to changes in atmospheric oceanic and glaciological conditions Recent fracturing and breakup events of ice shelves in the Canadian High Arctic have attracted significant scientific and public attention and produced large ice islands which may pose a risk to Arctic shipping and offshore infrastructure Much has been published about Antarctic ice shelves but to date there has not been a dedicated book about Arctic ice shelves or ice islands This book fills that gap *Common Wealth Dividends* Brent Ranalli, 2021-04-22 Common wealth dividends are universal cash payments funded by fees on the private use of common resources like land minerals and the atmosphere as a carbon sink Thomas Paine's 1797 pamphlet *Agrarian Justice* and Alaska's Permanent Fund Dividend are staples in the literature on Basic Income but there is much more to common wealth dividends beyond these highlights and common wealth dividends have a distinctive ethical justification and distinctive policy implications that merit discussion This monograph the most comprehensive study of common wealth dividends to date will be of interest to students teachers and advocates of Basic Income and those in the field of environmental studies including sustainable development natural resource management and climate policy **Carbon Governance, Climate Change and Business Transformation** Adam Bumpus, James Tansey, Blas Luis Pérez Henríquez, Chukwumerije Okereke, 2014-07-17 Transformation to a low carbon economy is a central tenet to any discussion on the solutions to the complex challenges of climate change and energy security Despite advances in policy carbon management and continuing development of clean technology fundamental business transformation has not occurred because of multiple political economic social and organisational issues *Carbon Governance Climate Change and Business Transformation* is based on leading academic and industry input and three international workshops focused on low carbon transformation in leading climate policy jurisdictions Canada USA and the UK under the international Carbon Governance Project CGP banner The book pulls insights from this innovative collaborative network to identify the policy combinations needed to create transformative change It explores fundamental questions about how governments and the private sector conceptualize the problem of climate change the conditions under which business transformation can genuinely take place and key policy and business innovations needed Broadly the book is based on emerging theories of multi levelled multi actor carbon governance and applies these ideas to the real world implications for tackling climate change through business transformation Conceptually and empirically this book stimulates both academic discussion and practical business models for low carbon transformation *Federal Register*, 2013-04 **Knowledge Socialism** Michael A. Peters, Tina Besley, Petar Jandrić, Xudong Zhu, 2020-10-07 This is the first collection focusing on knowledge socialism a particularly apt term used to describe a Chinese socialist mode of production and socialist approach to development and modernity based around the rise of peer production new forms of collaboration and collective intelligence Making the case for knowledge socialism the book is intended for students teacher scholars and

policy theorists in the field of knowledge economy *Transformation of Higher Education Institutions in Post-Apartheid South Africa* Chaunda L. Scott, Eunice N. Ivala, 2019-02-21 This book outlines successful transformation strategies and efforts that have been developed to assist the South African higher education system in moving beyond its post apartheid state of being Through case studies authored by South African higher education scholars and scholars affiliated with South African institutions this book aims to highlight the status of transformation in the South African higher education system demonstrate the variety of transformation initiatives used in academic institutions across South Africa and offer recommendations to further advance this transformation Written for scholars and advanced students of higher education in international settings this volume aims to support quality research that benefits the demographic composition of South African academics and students and offers lessons that can inform higher education transformation in similarly multicultural societies **Sustainable Strategies in Organic Electronics** Assunta Marrocchi, 2022-02-02 Sustainable Strategies in Organic Electronics reviews green materials and devices sustainable processes in electronics and the reuse recycling and degradation of devices Topics addressed include large scale synthesis and fabrication of safe device materials processes that neither use toxic reagents solvents or produce toxic by products Emerging opportunities such as new synthetic approaches for enabling the commercialization of pi conjugated polymer based devices are explored along with new efforts towards incorporating materials from renewable resources for a low carbon footprint Finally the book discusses the latest advances towards device biodegradability and recycling It is suitable for materials scientists and engineers chemists physicists in academia and industry Discusses emerging opportunities for green materials synthesis and fabrication of organic electronics Reviews the challenges of integration of sustainable strategies in large scale manufacturing of organic electronics Provides an overview of green materials and solvents that can be used as alternatives to toxic materials for organic electronics applications The Daunting Climate Change Jayarama Reddy Puthalpet, 2022-03-23 The book starts with an overview of Climate Science It discusses the signs of Warming the impacts and consequences on several sectors terrestrial and coastal ecosystems water resources ocean systems agriculture food production and food security human health and safety livelihoods and poverty Arctic populations low lying States so on Mathematical models to project future climate and the resulting concerns global adaptation experiences and opportunities for future execution are explained The mitigation approaches chiefly decarbonizing the energy sector by developing and applying clean low carbon energy sources and improving energy efficiency and the evolving geoengineering schemes are dealt Carbon pricing an economic tool to ensure emissions reductions and transition to a low carbon economy to stimulate sustainable growth are described The continued global efforts under the UN or otherwise until the recent Paris Agreement to arrive at policy responses to tackle this intriguing but daunting problem of climate change are vividly expounded Note T F does not sell or distribute the hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka **Boys' Life** ,1989-06 Boys Life is the official youth magazine for the Boy Scouts

of America Published since 1911 it contains a proven mix of news nature sports history fiction science comics and Scouting

China's Way to Carbon Emissions Reduction Ying Shen, 2015-08-18 Now that the most recent scientific estimates have shown that China has become the world's largest source of greenhouse gas emissions China's influence on the world's environment and sustainable development highlights the importance of tailoring Chinese climate change law to conform with the requirements of international conventions and agreements on climate change This thorough analysis based on an examination of climate status legal background and current regulatory systems in China examines the potential role of different policy instruments in reducing carbon emissions in order to find an appropriate choice for China and recommends approaches to key issues for relevant authorities The author conducts a comprehensive and in depth study on the three mainstream environmental policy instruments used to control carbon emissions the cap and trade system the carbon tax and command and control regulations in a Chinese context She reviews China's current policies and elucidates how the issues of climate change and global warming call for social environmental economic and legal reforms in China especially in the areas of administrative law and property rights law Among the issues and topics covered are the following key issues on designing and implementing each of the three policy instruments the choice of regulatory instruments for carbon emissions reduction in a socialist market economy based on the discussion of market failure and government failure theories legal challenges from China's current administrative legislation and the definition of carbon emissions entitlements practical effect of China's climate change policy at the national provincial and local levels effectiveness of China's implementation of its international obligations lessons learned from schemes implemented in the United States and Australia comparison of China's seven regional pilot emissions trading scheme ETS programmes with the well established EU ETS linkage between China's ETS and other ETSs from a global perspective and future direction of an emerging carbon market in China The analysis assesses the critical costs and benefits of each approach in the context of selected case studies taking legal literature in the field fully into account Given that the Chinese government is taking steps to reduce emissions by altering energy production and usage and is signalling a willingness to make similar commitments in a multilateral treaty it is very timely and important for lawmakers and scholars within and outside China to think about new and appropriate regulatory measures to respond to the crisis and plan for a sustainable future This study provides not only a useful benchmark for both China and other countries in formulating initiatives on enhancing climate protection but also details the global implications for governments and for international organizations concerned with the understanding between China and the rest of the world in the context of climate change mitigation

Thermal Energy Yatish T. Shah, 2018-01-12 The book details sources of thermal energy methods of capture and applications It describes the basics of thermal energy including measuring thermal energy laws of thermodynamics that govern its use and transformation modes of thermal energy conventional processes devices and materials and the methods by which it is transferred It covers 8 sources of thermal energy combustion fusion solar fission

nuclear geothermal microwave plasma waste heat and thermal energy storage In each case the methods of production and capture and its uses are described in detail It also discusses novel processes and devices used to improve transfer and transformation processes The United States of Excess Robert Paarlberg,2015-03-02 Is it possible that America is hard wired to consume too much food and fuel Unfortunately yes says Robert Paarlberg in The United States of Excess America s excess is driven in each case by its distinct endowment of material and demographic resources its unusually weak national political institutions and a unique political culture that celebrates both individual freedoms over social responsibility and free markets over governmental authority America s over consumption is shown to be over determined

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