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.



 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

Lei Huang

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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

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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

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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 **Thermal Energy** Yatish T. Shah, 2018-01-12 The book details sources of thermal energy methods of capture mitigation 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

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